

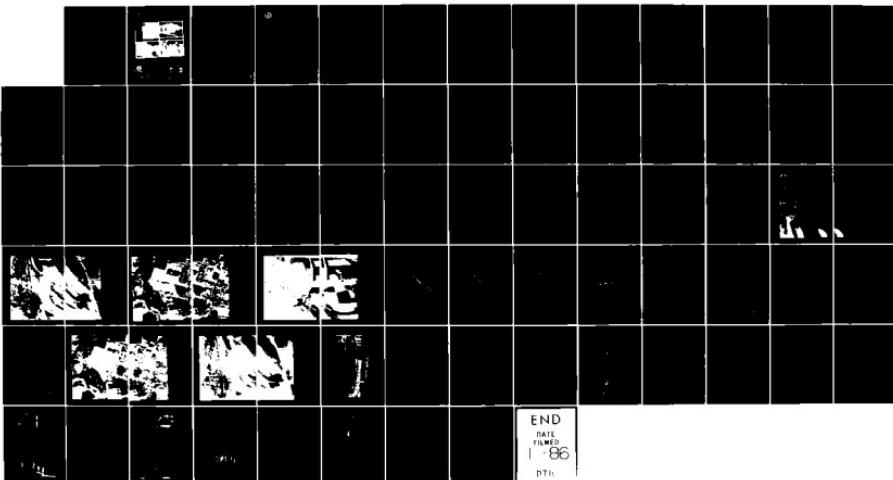
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CONTROL STUDY FOR HISTOR..(U) ARMY ENGINEER DISTRICT ST  
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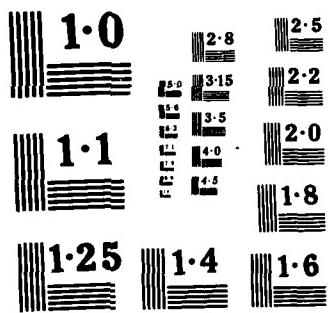
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# STE. GENEVIEVE, MISSOURI FEASIBILITY REPORT

(1)



AD-A161 288

## FLOOD CONTROL STUDY FOR HISTORIC STE. GENEVIEVE - 80061

FILE COPY



US Army Corps  
of Engineers  
St. Louis District  
Lower Mississippi Valley Division

VOLUME THREE  
PLATES FOR APPENDICES

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plates; DTIC reproduction  
will be in black and  
white."

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JUNE 1984

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
	10-4161	285
4. TITLE (and Subtitle)  Ste. Genevieve, Missouri Feasibility Report (Flood Control Study For Historic Ste. Genevieve - 80061) Vol. 3, Plates for Appendices		5. TYPE OF REPORT & PERIOD COVERED  Feasibility Report
7. AUTHOR(s)  James Zerega                    David Gates George Knight                 Daniel Marshall John Brady                    Dennis Woodruff		6. PERFORMING ORG. REPORT NUMBER  8. CONTRACT OR GRANT NUMBER(s)  Not Applicable
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11. CONTROLLING OFFICE NAME AND ADDRESS		12. REPORT DATE  June 1984
		13. NUMBER OF PAGES  800
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18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number)  Report addresses the feasibility of Federal participation in a flood protection project for the historic community of Ste. Genevieve, Missouri. The town was founded in the 1700's by French colonists. Much of the community has been designated a Registered National Historic Landmark. Flooding is primarily from the Mississippi River. The proposed plan includes a major levee and pump station, tributary channel widening and other features, and costs \$33,580,000 at October 1984 price levels. Benefits include historic preservation and reduction in flood damages.		



REPLY TO  
ATTENTION OF

**DEPARTMENT OF THE ARMY**  
**ST. LOUIS DISTRICT, CORPS OF ENGINEERS**  
**210 TUCKER BOULEVARD, NORTH**  
**ST. LOUIS, MISSOURI 63101**

**STE. GENEVIEVE, MISSOURI**  
**FEASIBILITY REPORT**

**FLOOD CONTROL STUDY**  
**FOR HISTORIC STE. GENEVIEVE - 80061**

**VOLUME THREE**  
**PLATES FOR APPENDICES**

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June 1984

U.S. Army Corps of Engineers  
St. Louis District  
Lower Mississippi Valley Division

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will be in black and  
white."

STE. GENEVIEVE, MISSOURI

FEASIBILITY REPORT

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- Volume One    - Main Report  
                  - Final Environmental Impact Statement  
                  - Public Views and Responses
- Volume Two    - Appendix A - Plan Formulation  
                  - Appendix B - Public Views and Responses  
                  - Appendix C - Hydrology and Hydraulics  
                  - Appendix D - Design and Cost Estimates  
                  - Appendix E - Cultural Resources  
                  - Appendix F - Ecological Resources  
                  - Appendix G - Recreation  
                  - Appendix H - Economics  
                  - Appendix I - Endangered Species Coordination  
                  - Appendix J - U.S. Fish and Wildlife Service Coordination  
                  - Appendix K - Clean Water Act (Section 404 b) Evaluation

Volume Three - Plates for all Appendices

STE. GENEVIEVE, MISSOURI

FEASIBILITY REPORT

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STE. GENEVIEVE, MISSOURI

FEASIBILITY REPORT

VOLUME THREE

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- C-11      STAGE-FREQUENCY RELATIONSHIP - CHESTER GAGE
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STE. GENEVIEVE, MISSOURI

FEASIBILITY REPORT

VOLUME THREE

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STE. GENEVIEVE, MISSOURI

FEASIBILITY REPORT

VOLUME THREE

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K-1      SECTION 404 JURISDICTION



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PLATE A-1



STE. GENEVIEVE, MISSOURI  
MEASURE 2

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PLATE A-2



STE GENEVIEVE, MISSOURI  
MEASURE 3

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PLATE A-3



STE. GENEVIEVE, MISSOURI  
MEASURE 4

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PLATE A-4



STE. GENEVIEVE, MISSOURI  
MEASURE 5

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PLATE A-5



STE. GENEVIEVE, MISSOURI  
MEASURE 6

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SCALE IN FEET

PLATE A-6



STE. GENEVIEVE, MISSOURI  
MEASURE 7

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SCALE IN FEET

PLATE A-7



STE. GENEVIEVE, MISSOURI  
MEASURE 8

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PLATE A-8



STE. GENEVIEVE, MISSOURI  
MEASURE 20

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PLATE A-9



STE. GENEVIEVE, MISSOURI  
MEASURE 21

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PLATE A-10



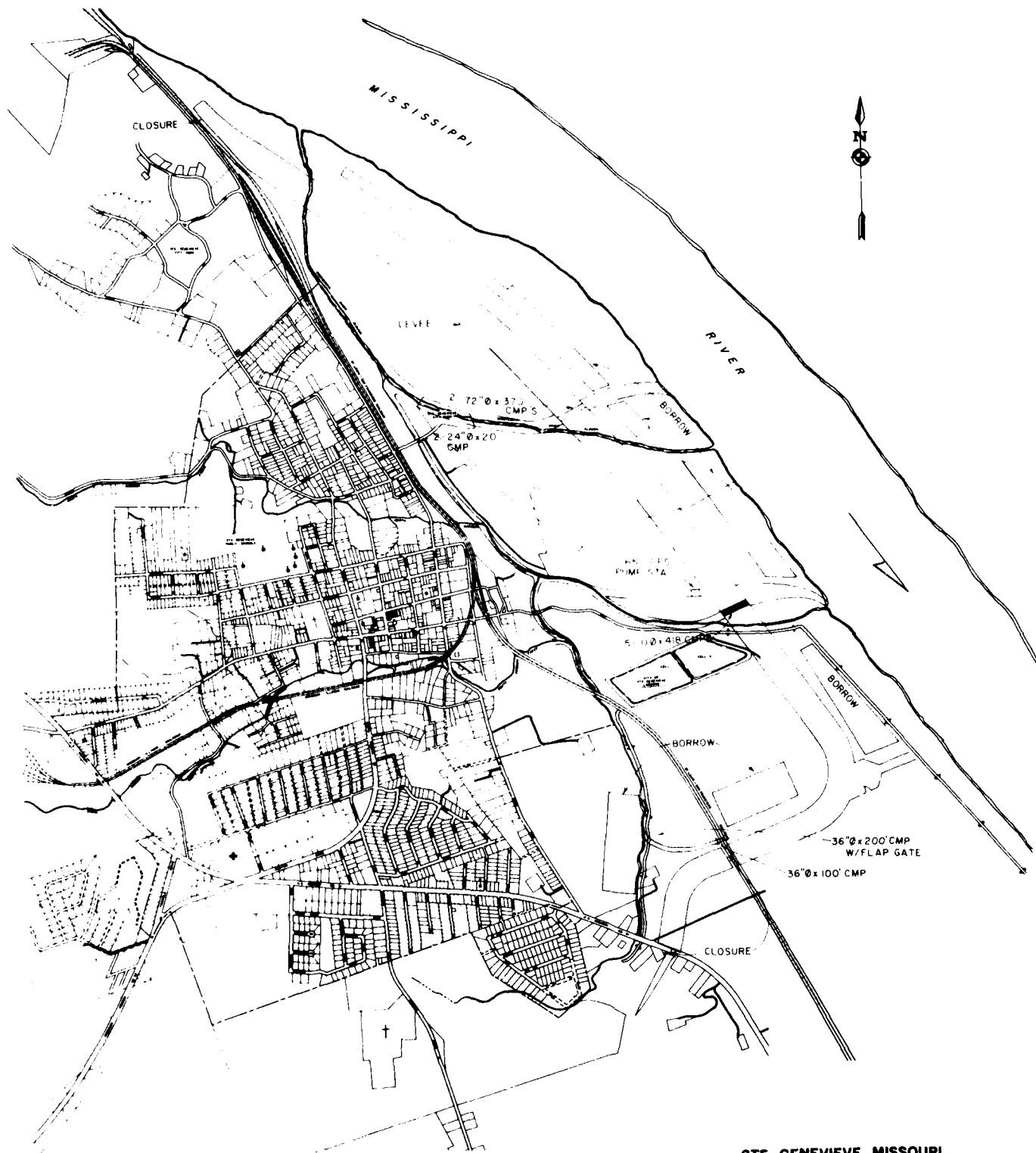
STE. GENEVIEVE, MISSOURI  
MEASURE 9



STE. GENEVIEVE, MISSOURI  
MEASURE 10

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PLATE A-12



STE. GENEVIEVE, MISSOURI  
MEASURE 11

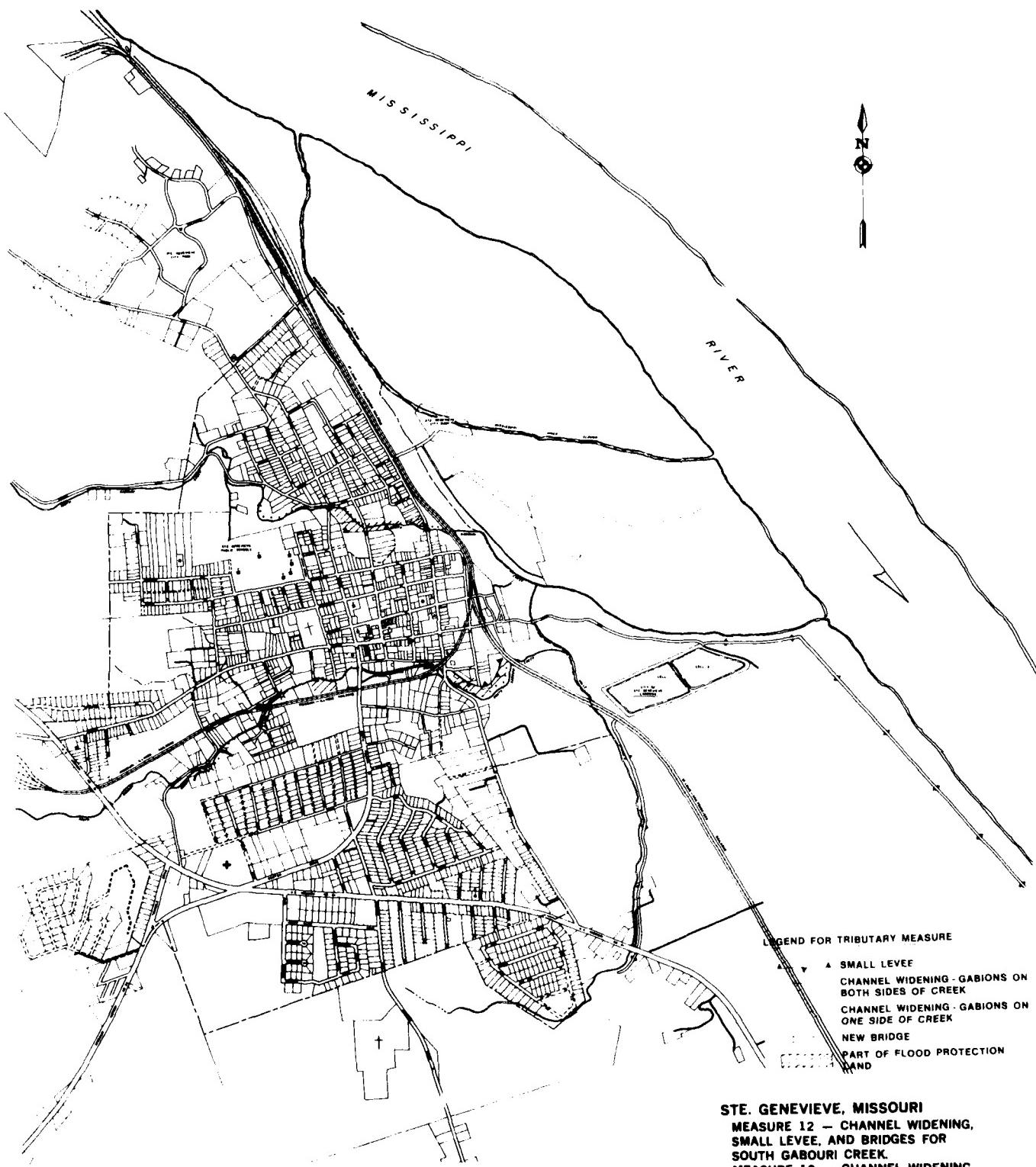
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PLATE A-13



STE. GENEVIEVE, MISSOURI  
MEASURE 18 (SOUTH GABOURI CREEK)  
MEASURE 19 (NORTH GABOURI CREEK)

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PLATE A-15



STE. GENEVIEVE, MISSOURI  
MEASURE 22

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PLATE A-10

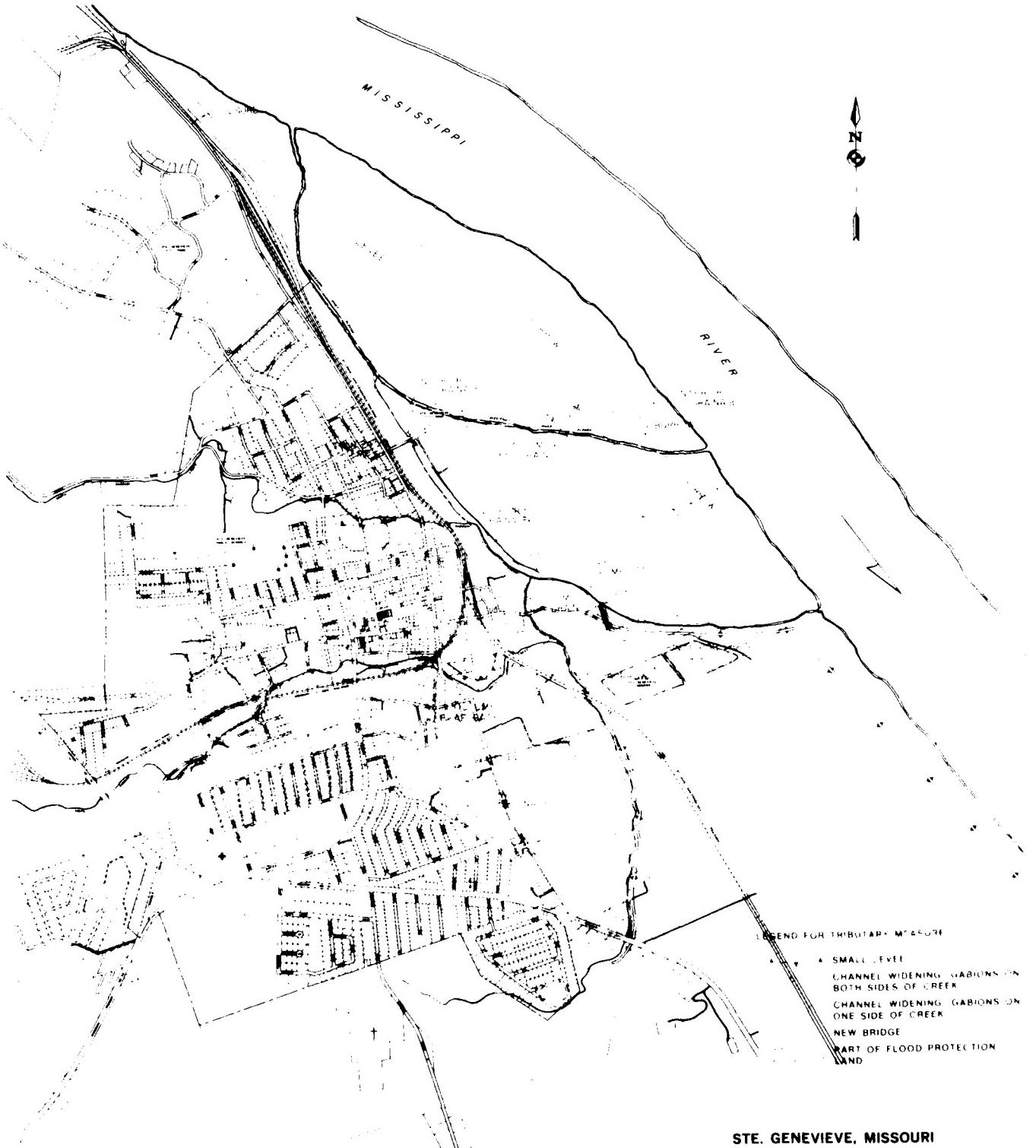
NOTE RECREATION FACILITIES SHOWN ON MAP  
ALL RECREATION FACILITIES ARE ON  
FLOOD CONTROL LANDS



STE. GENEVIEVE, MISSOURI  
MEASURE 16

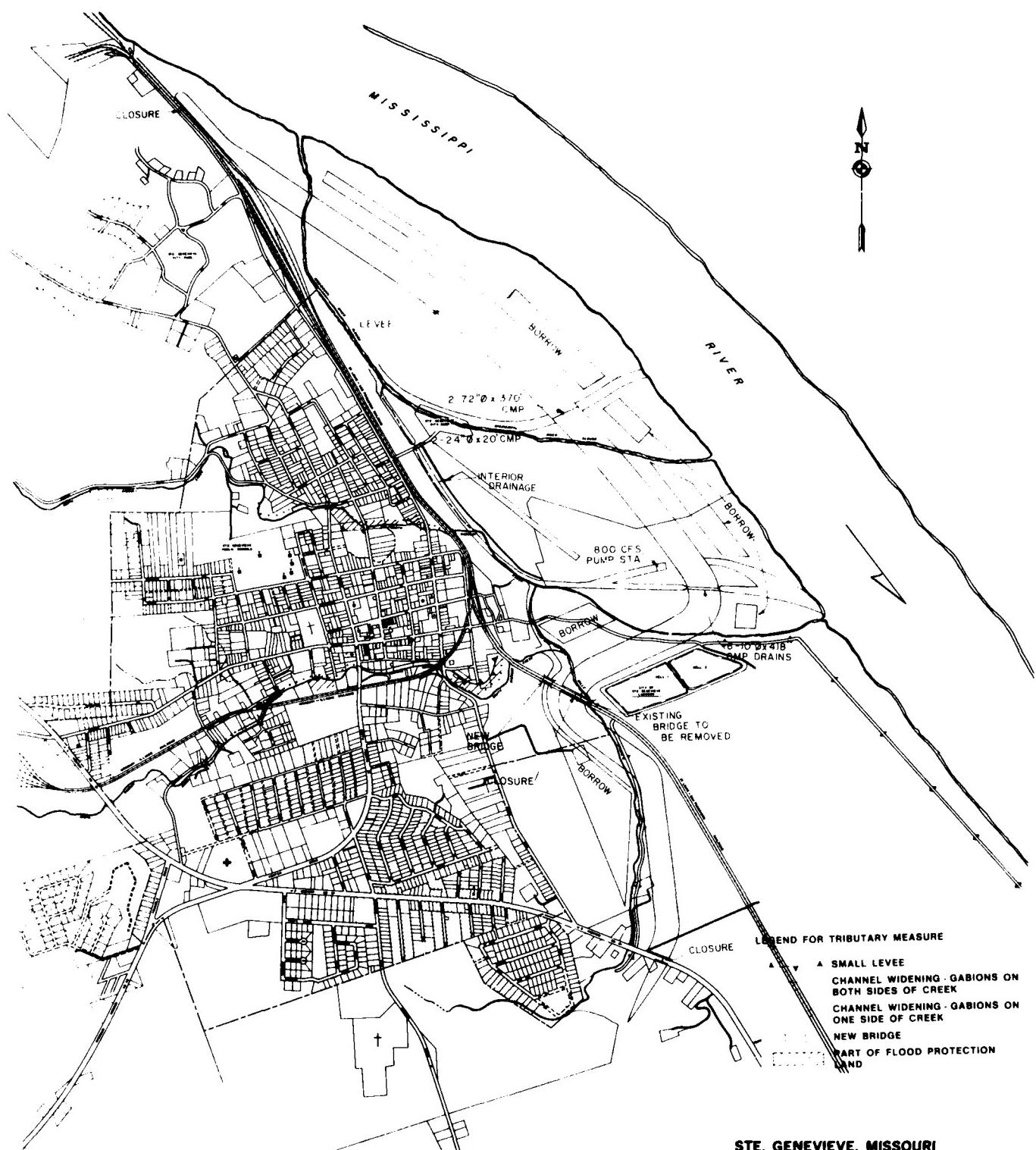
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PLATE A-17

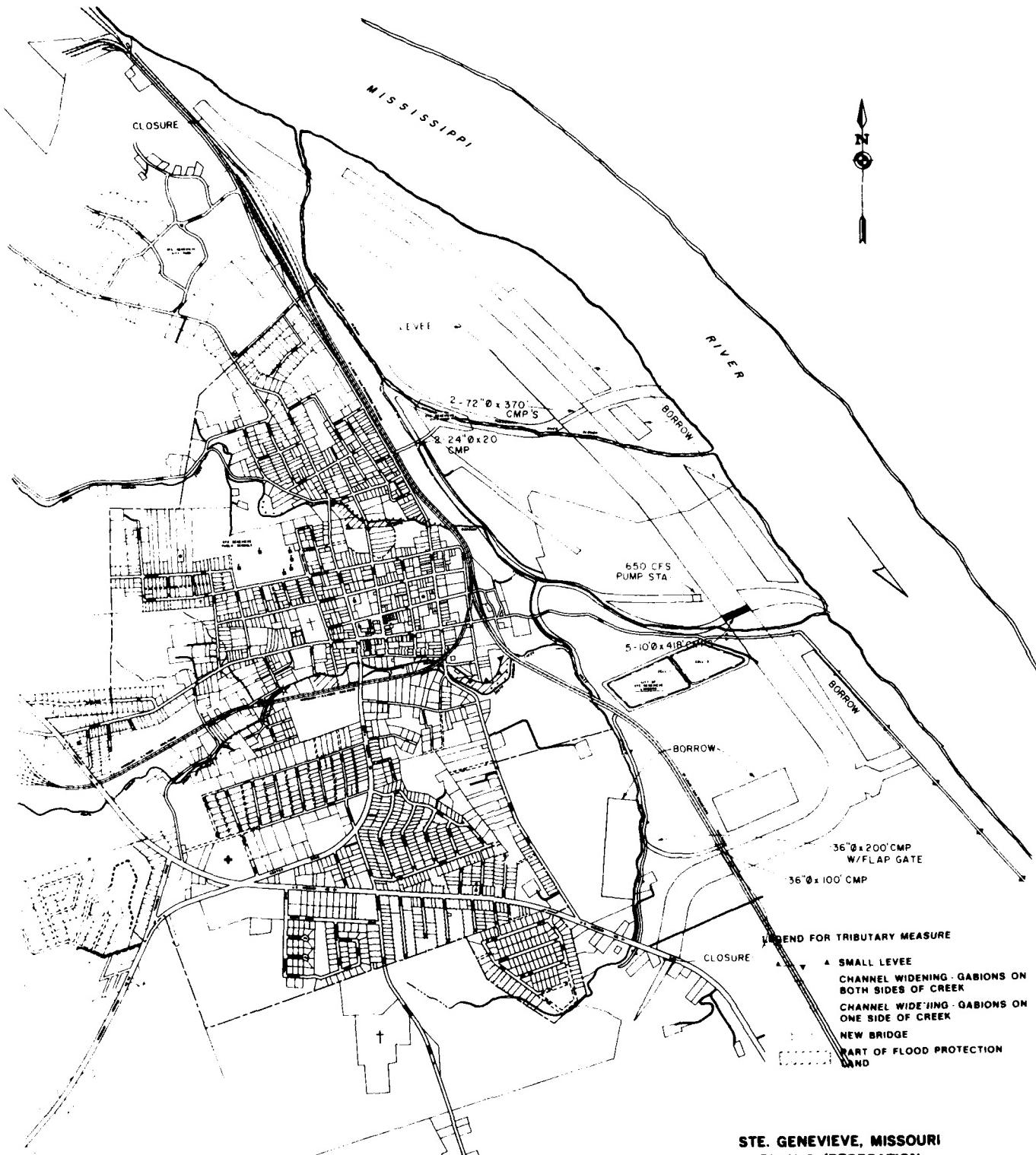


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PLATE A-1B



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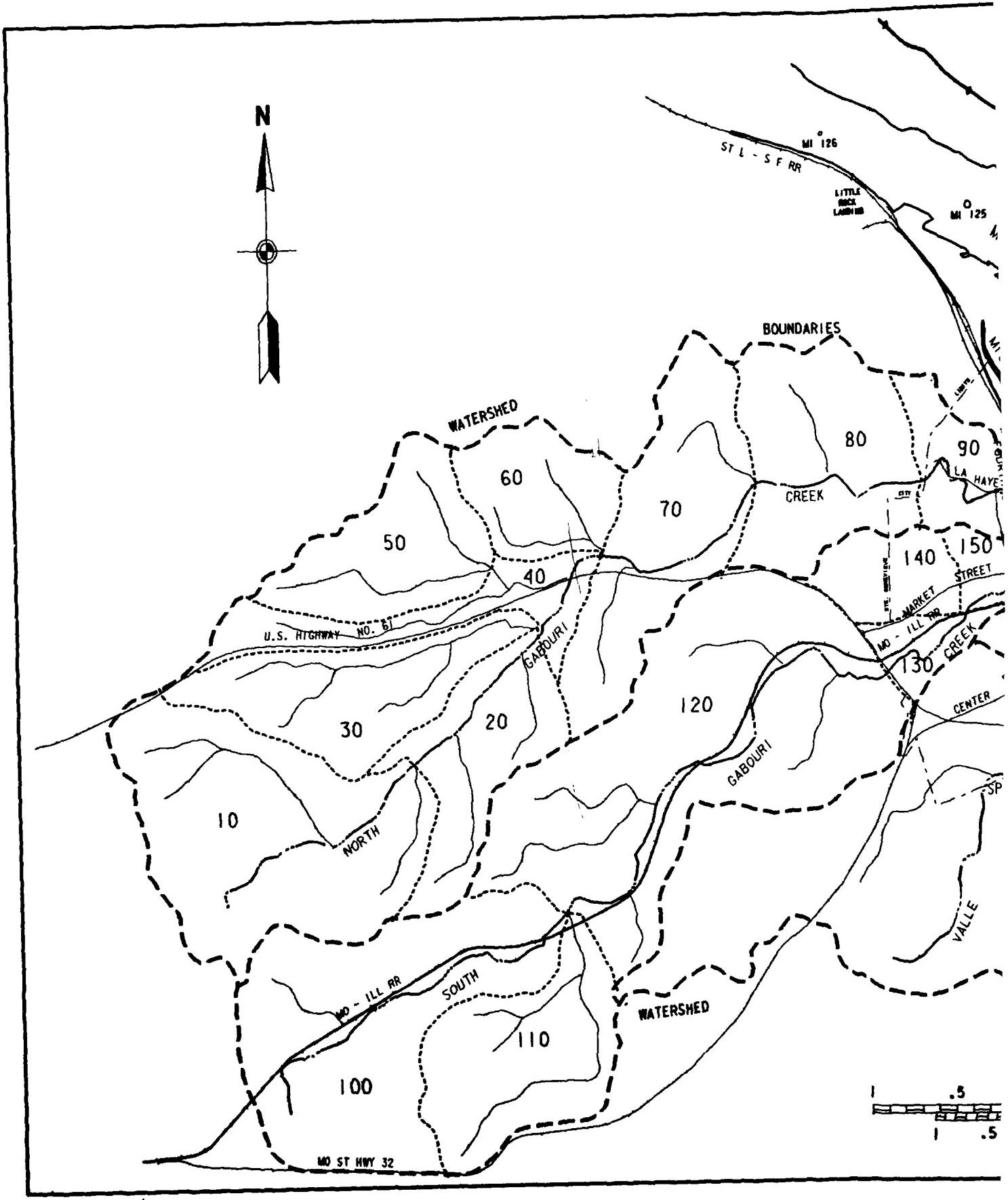
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STE. GENEVIEVE, MISSOURI  
PLAN 4

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PLATE A-21



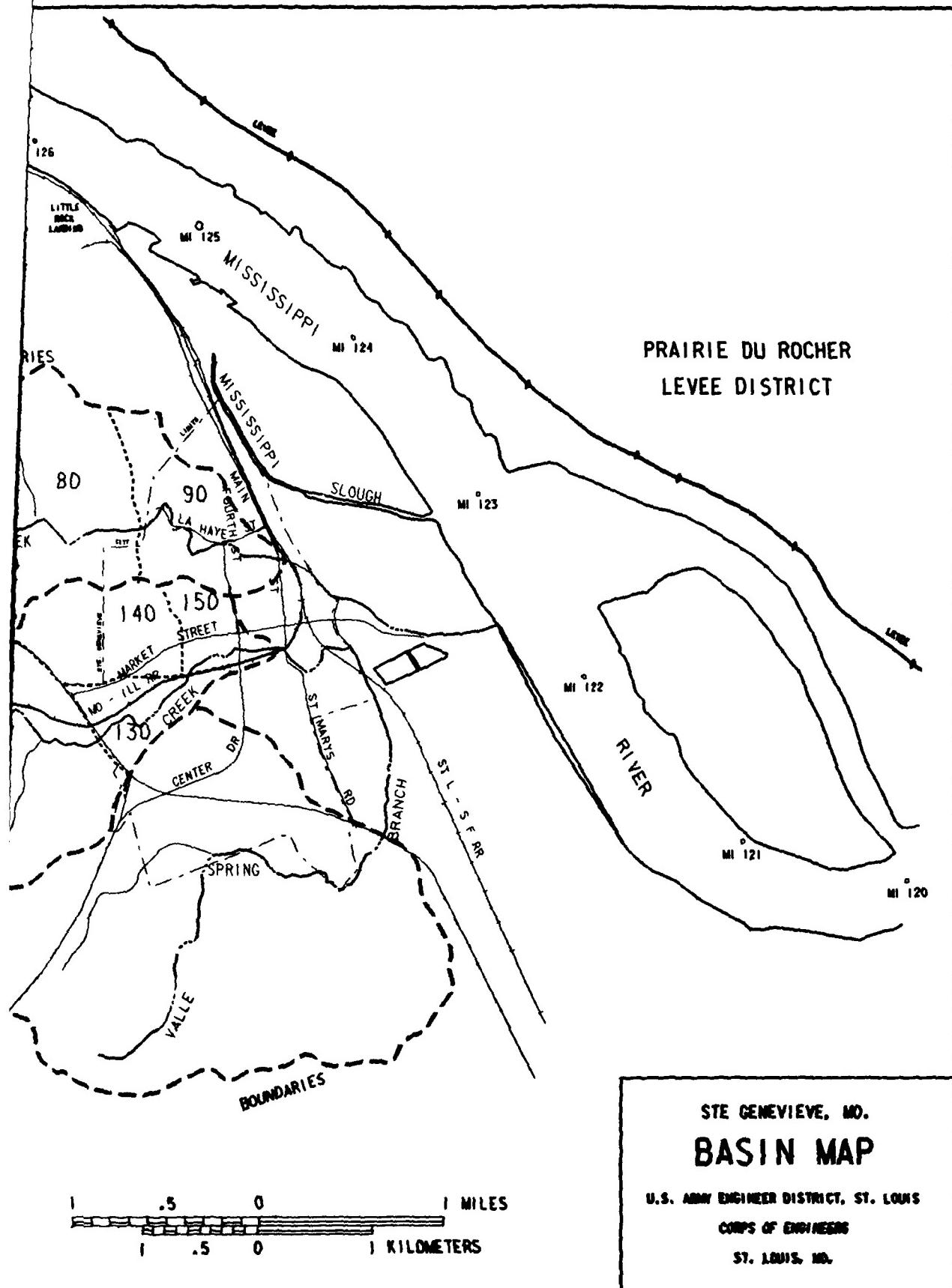
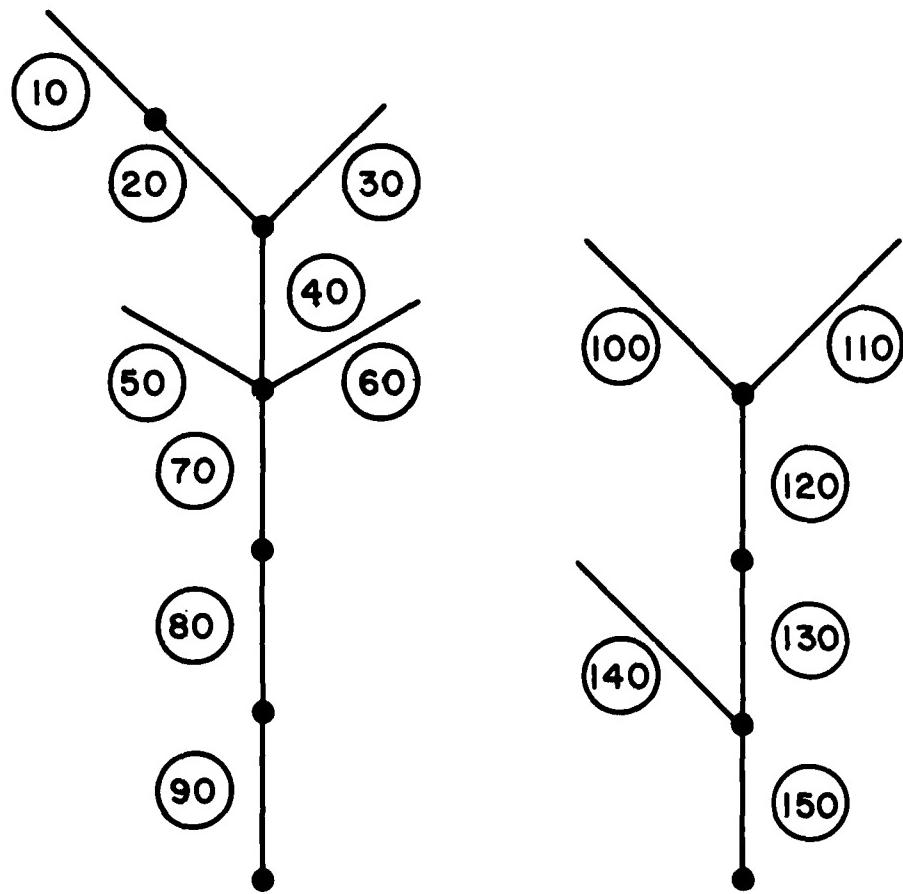


PLATE C-1



NORTH GABOURI CREEK

SOUTH GABOURI CREEK

LEGEND

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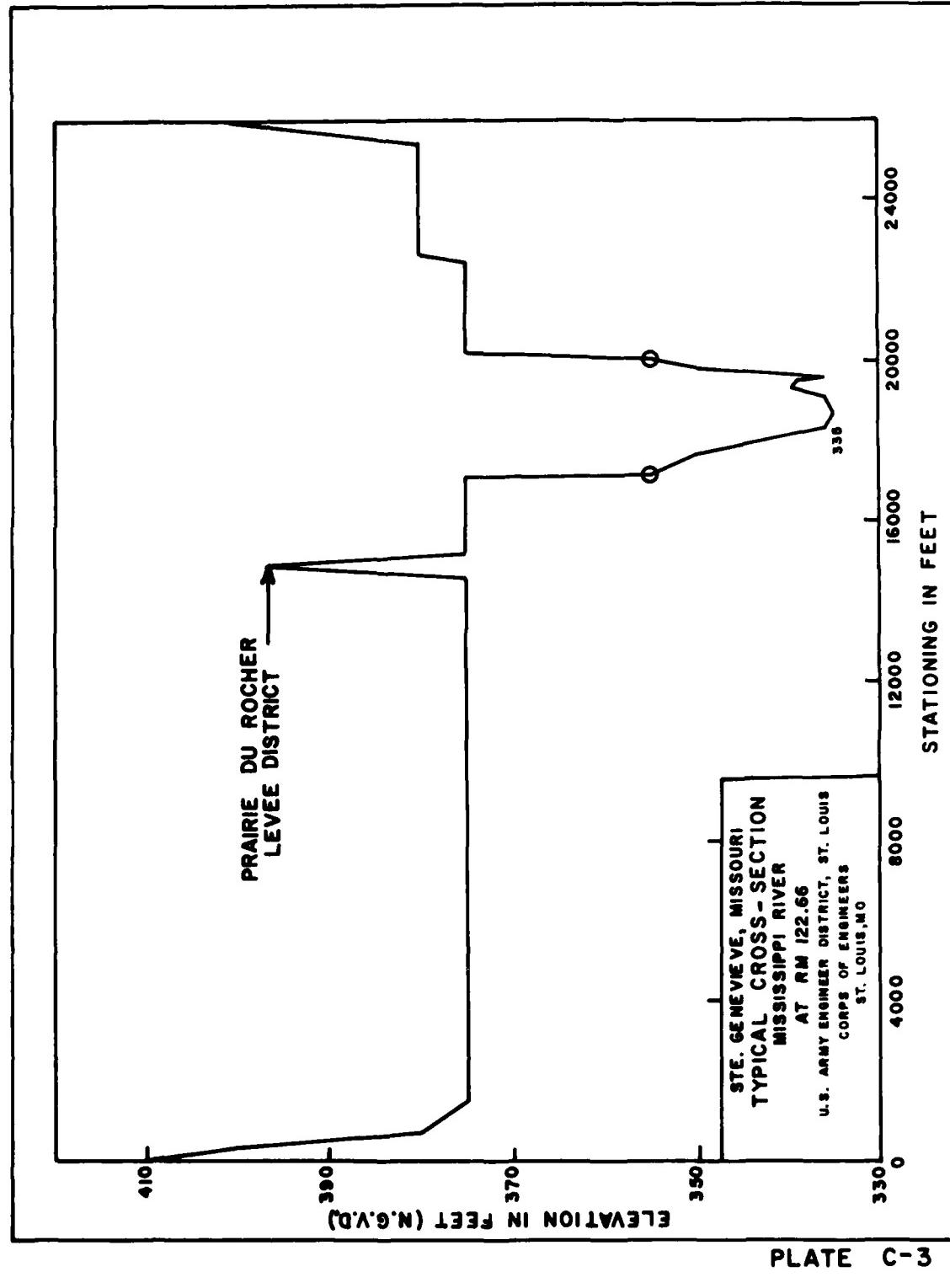
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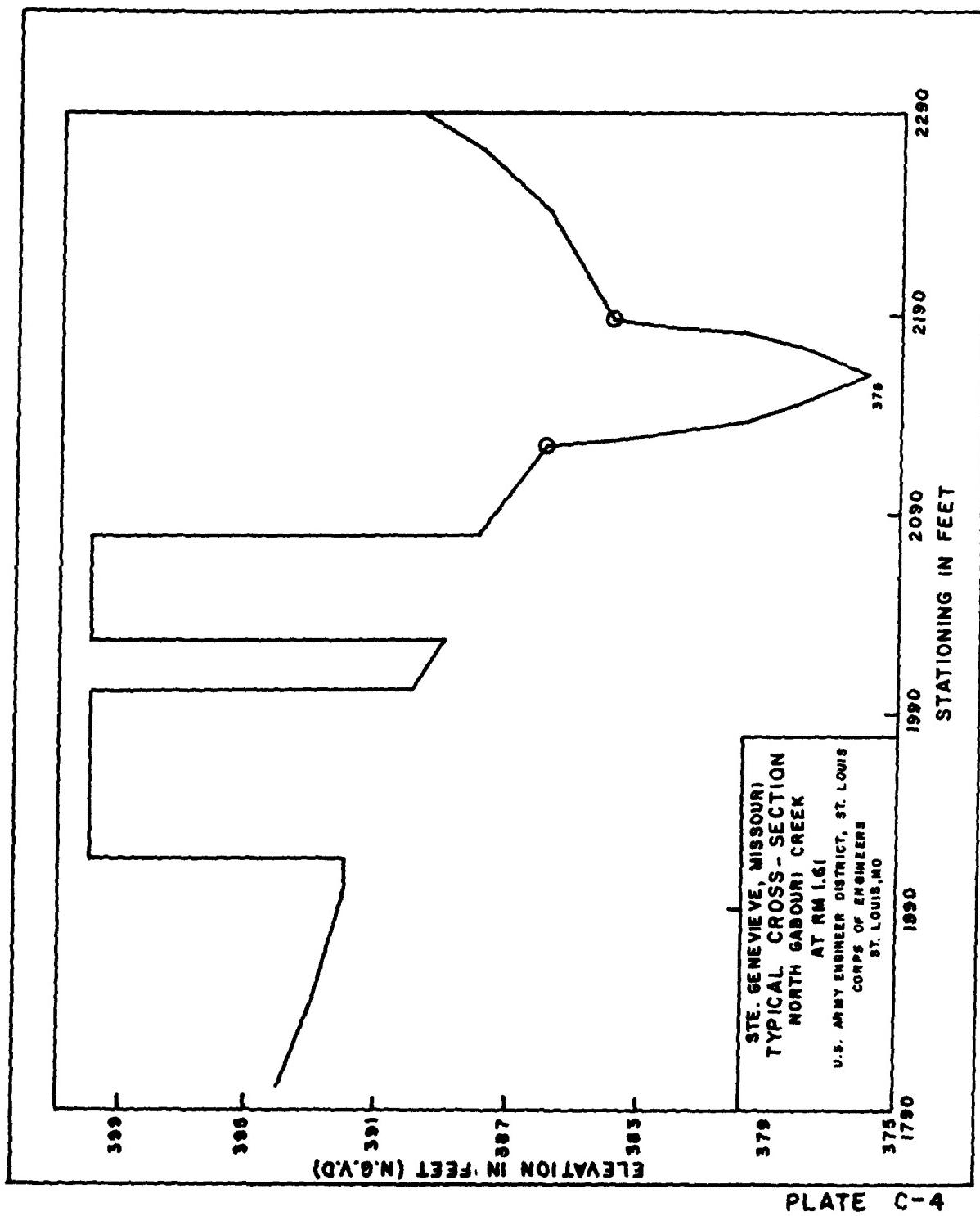


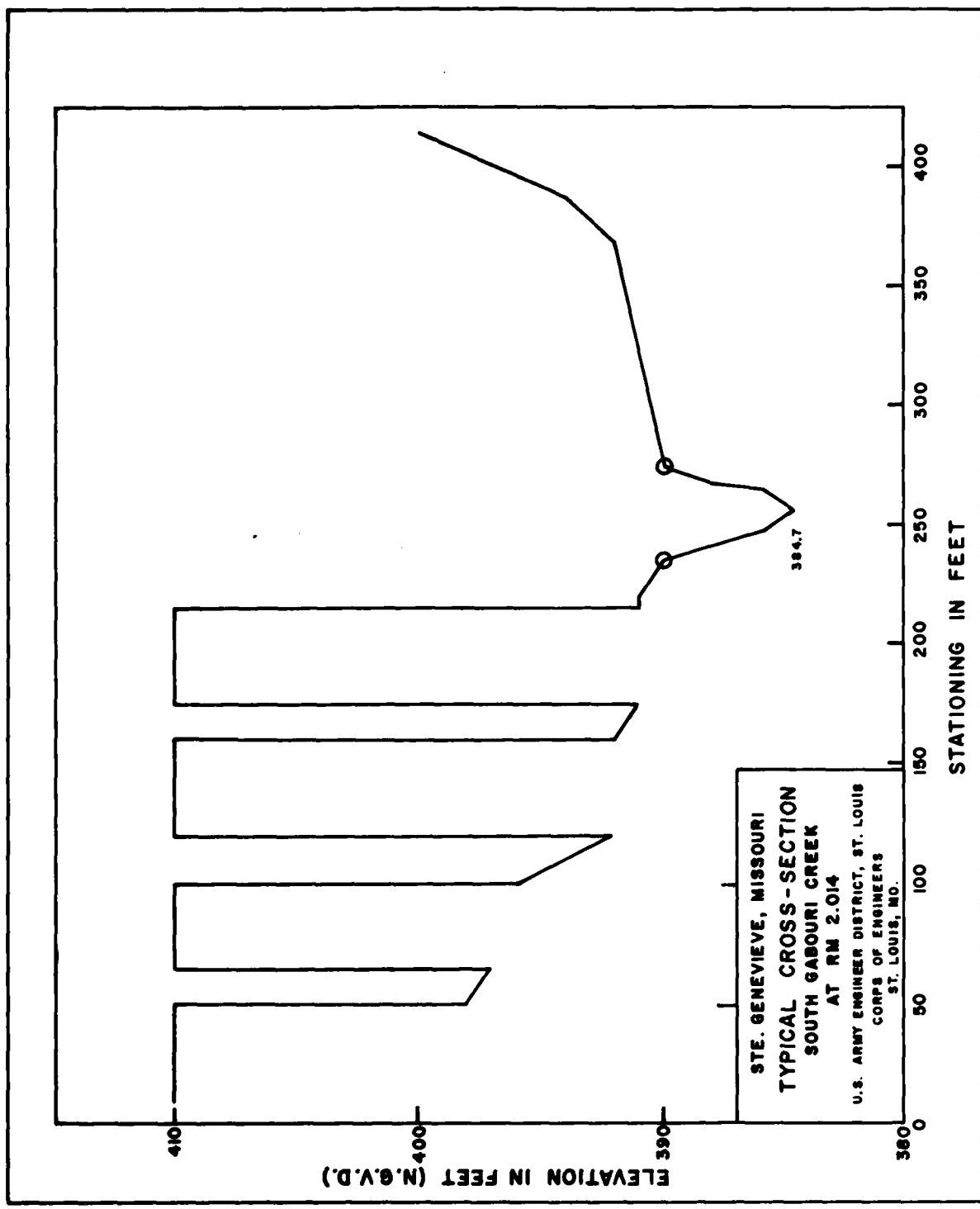
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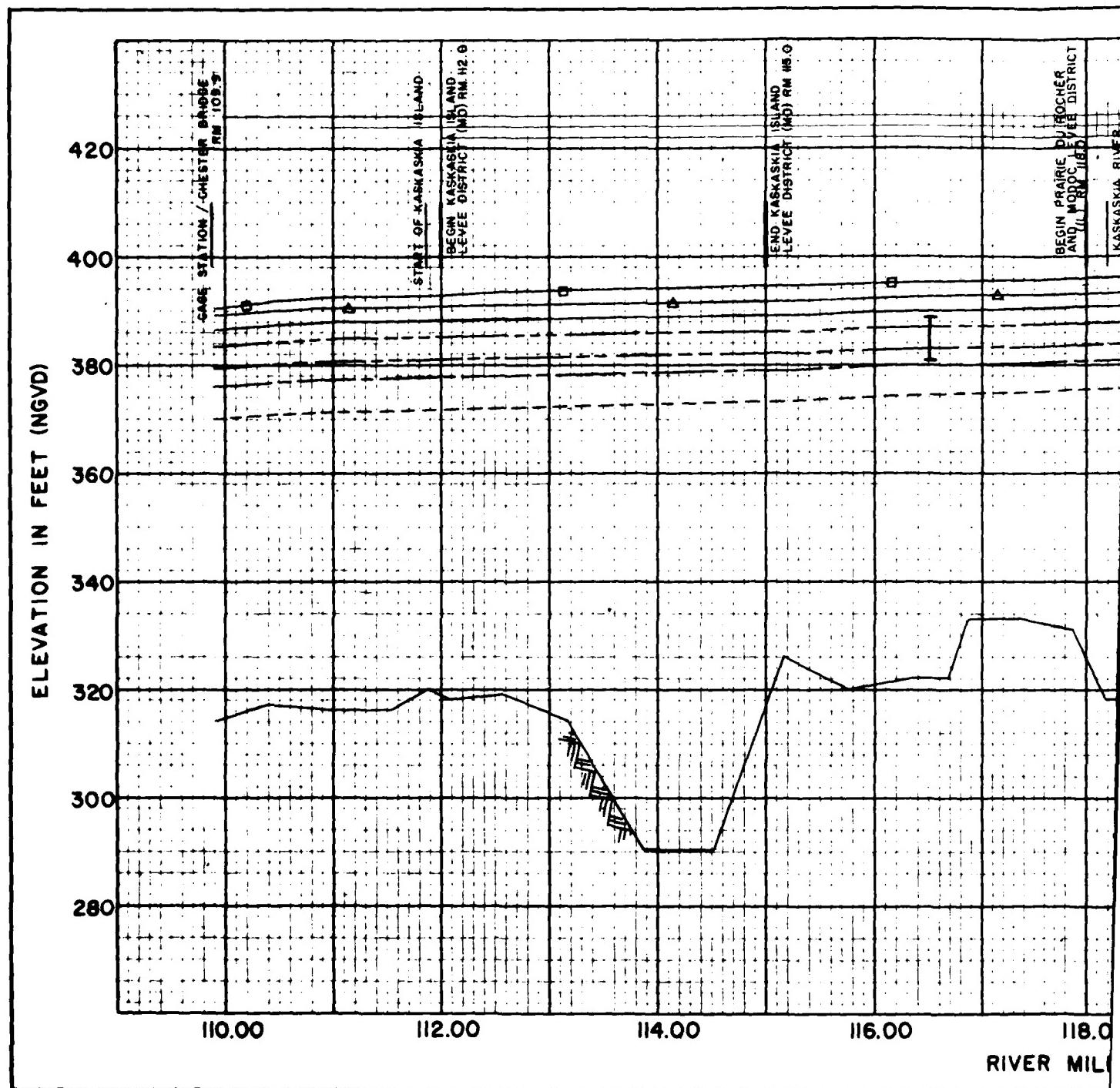
STE. GENEVIEVE, MISSOURI  
HEC-I SCHEMATIC  
NORTH AND SOUTH GABOURI CREEK BASINS  
U.S. ARMY ENGINEER DISTRICT, ST. LOUIS  
CORPS OF ENGINEERS  
ST. LOUIS, MO.

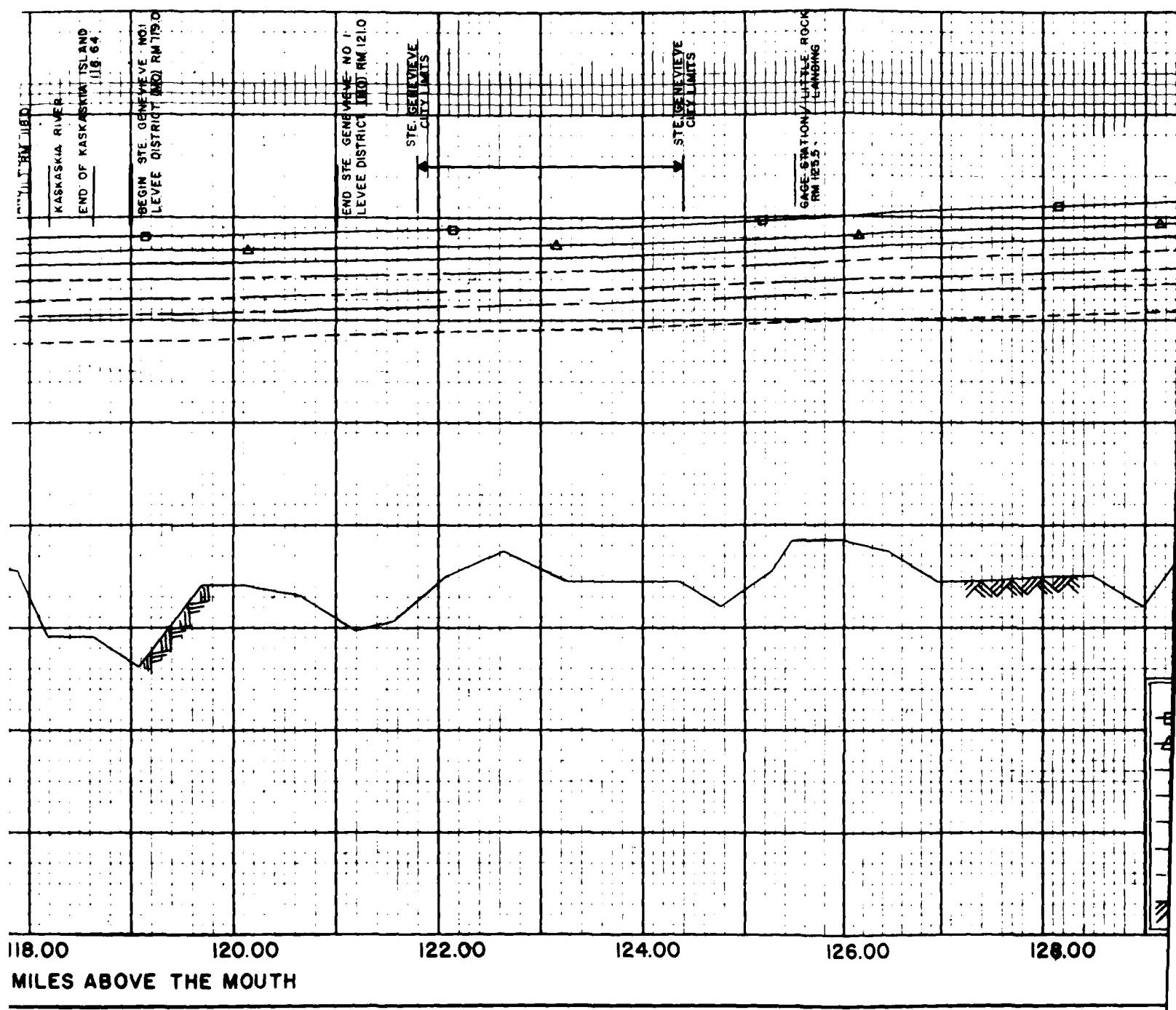
PLATE C-2









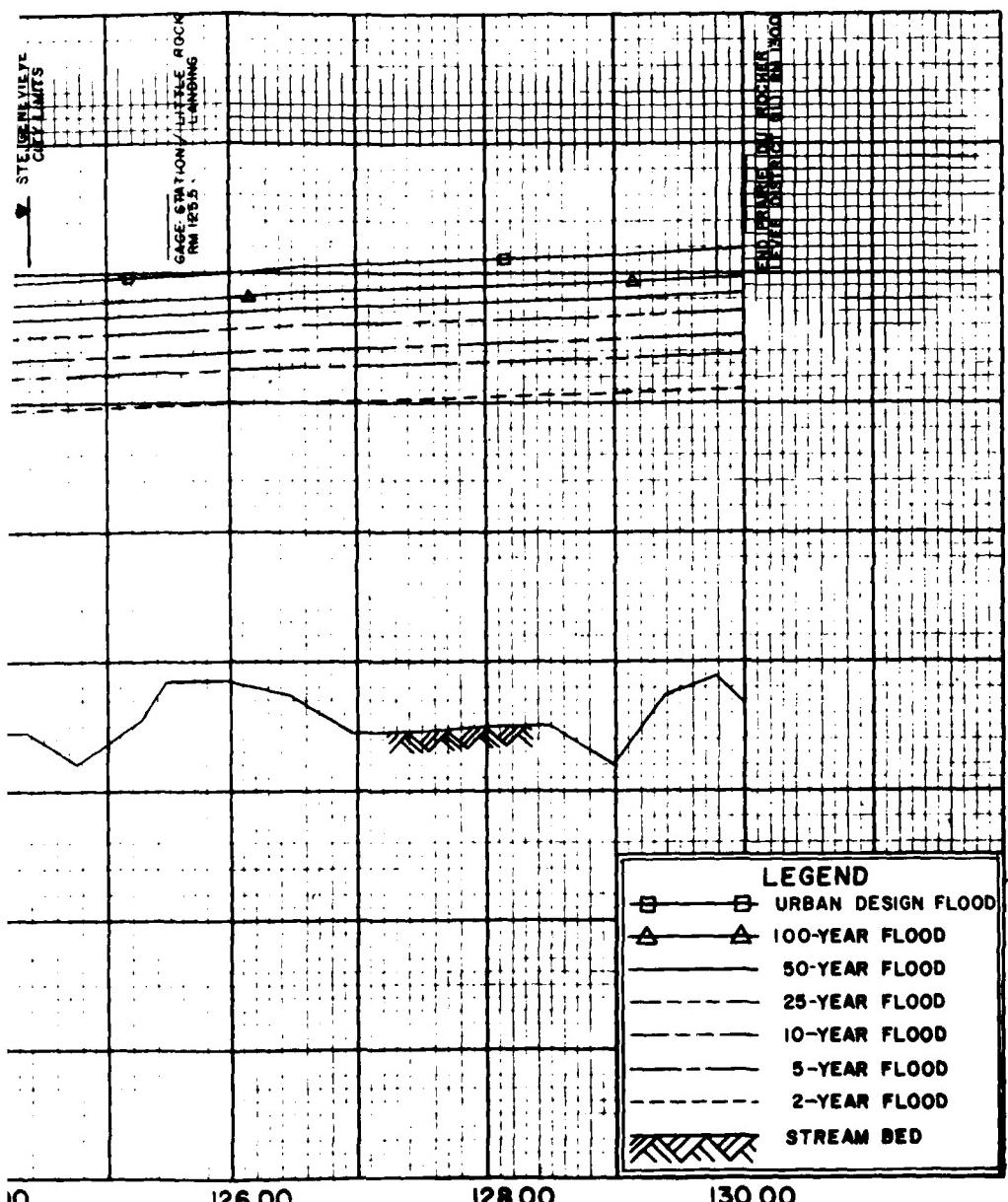


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WATER SURFACE PROFILE  
MISSISSIPPI RIVER (RM 109.9-130.0)

STE. GENEVIEVE, MO.  
(STE. GENEVIEVE CO.)

PLATE C-6

PLATE C-6



**MISSISSIPPI RIVER FLOODING**

URBAN DESIGN FLOOD LIMITS  
(500 YEAR FLOOD LIMITS)  
100 YEAR FLOOD LIMITS  
1973 FLOOD LIMITS





## **MISSISSIPPI RIVER FLOODING**

URBAN DESIGN FLOOD LIMITS  
(500 YEAR FLOOD LIMITS)  
100 YEAR FLOOD LIMITS  
1973 FLOOD LIMITS

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STE GENEVIEVE, MO & VICINITY

TOPOGRAPHIC MAPPING  
U.S. ARMY ENGINEER DISTRICT ST. LOUIS  
DEPT. OF ENGINEERS  
ST. LOUIS MISSOURI  
16 21 SHEETS





MISSISSIPPI RIVER FLOODING

URBAN DESIGN FLOOD LIMITS  
1000 YEAR FLOOD LIMITS  
500 YEAR FLOOD LIMITS  
100 YEAR FLOOD LIMITS

1975 FLOOD LIMITS

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1975 FLOOD LIMITS

STE. GENEVIEVE, MO & VICINITY

FEDERAL HAZARD MAPPING  
DEPARTMENT OF THE ARMY AT DUSK  
ARMED FORCES ENGINEERS  
U.S. ARMY CORPS OF ENGINEERS  
WATERWAYS EXPERIMENT STATION  
MAP SHEET NO. 1  
PLATE C-10





#### **MISSISSIPPI RIVER FLOODING**

**URBAN DESIGN FLOOD LIMITS  
(500 YEAR FLOOD LIMITS)  
100 YEAR FLOOD LIMITS  
1973 FLOOD LIMITS**

1996-1997 学年第一学期期中考试卷

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STE GENEVIEVE, MO & VICINI

**HYDROGRAPHIC MAPPING  
ST. LOUIS ENGINEER DISTRICT ST. LOUIS**

ST LOUIS, MISSOURI

PLATE C-10

*Chlorophytum comosum* (L.) Willd. (Asparagaceae)

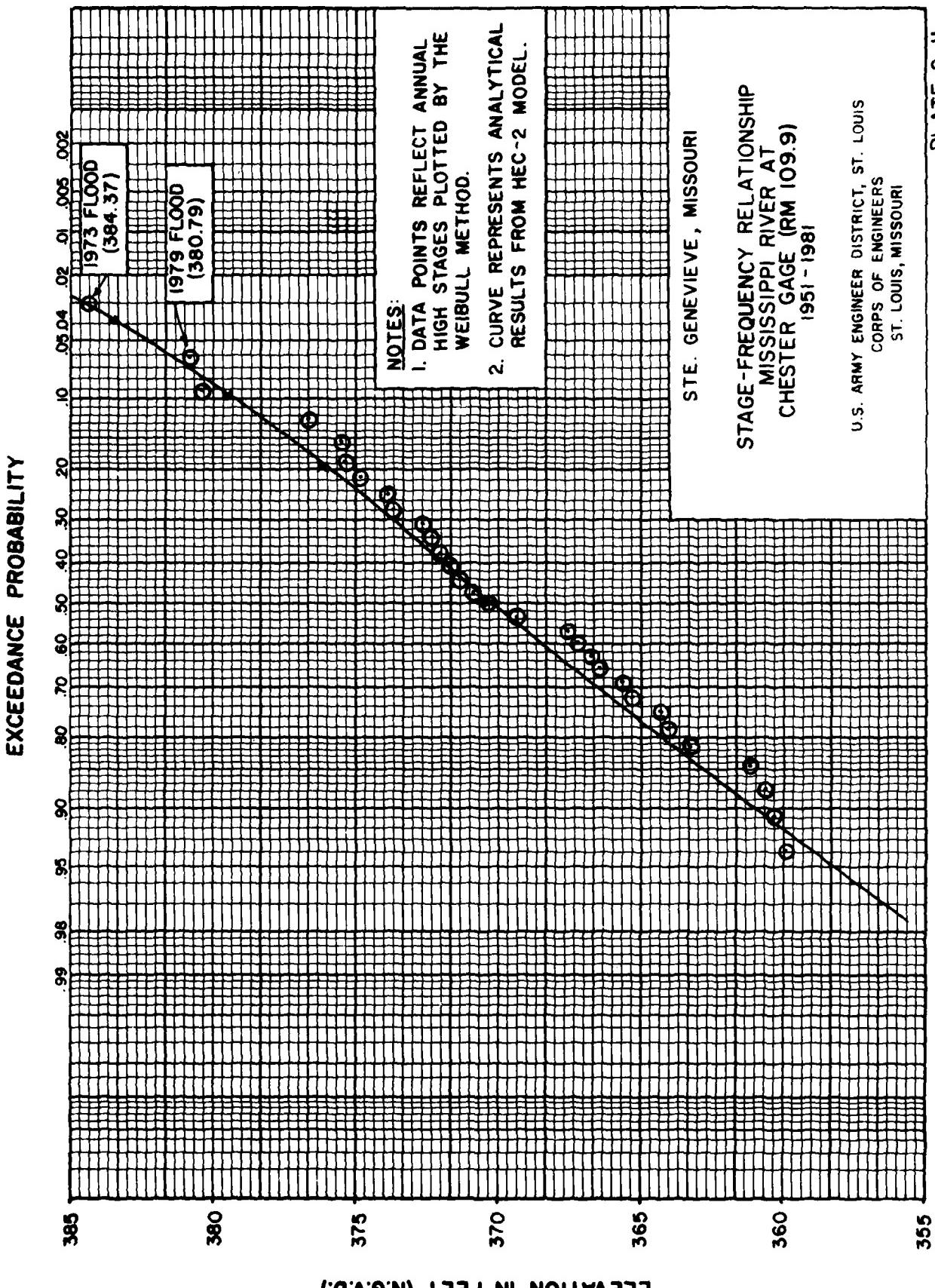
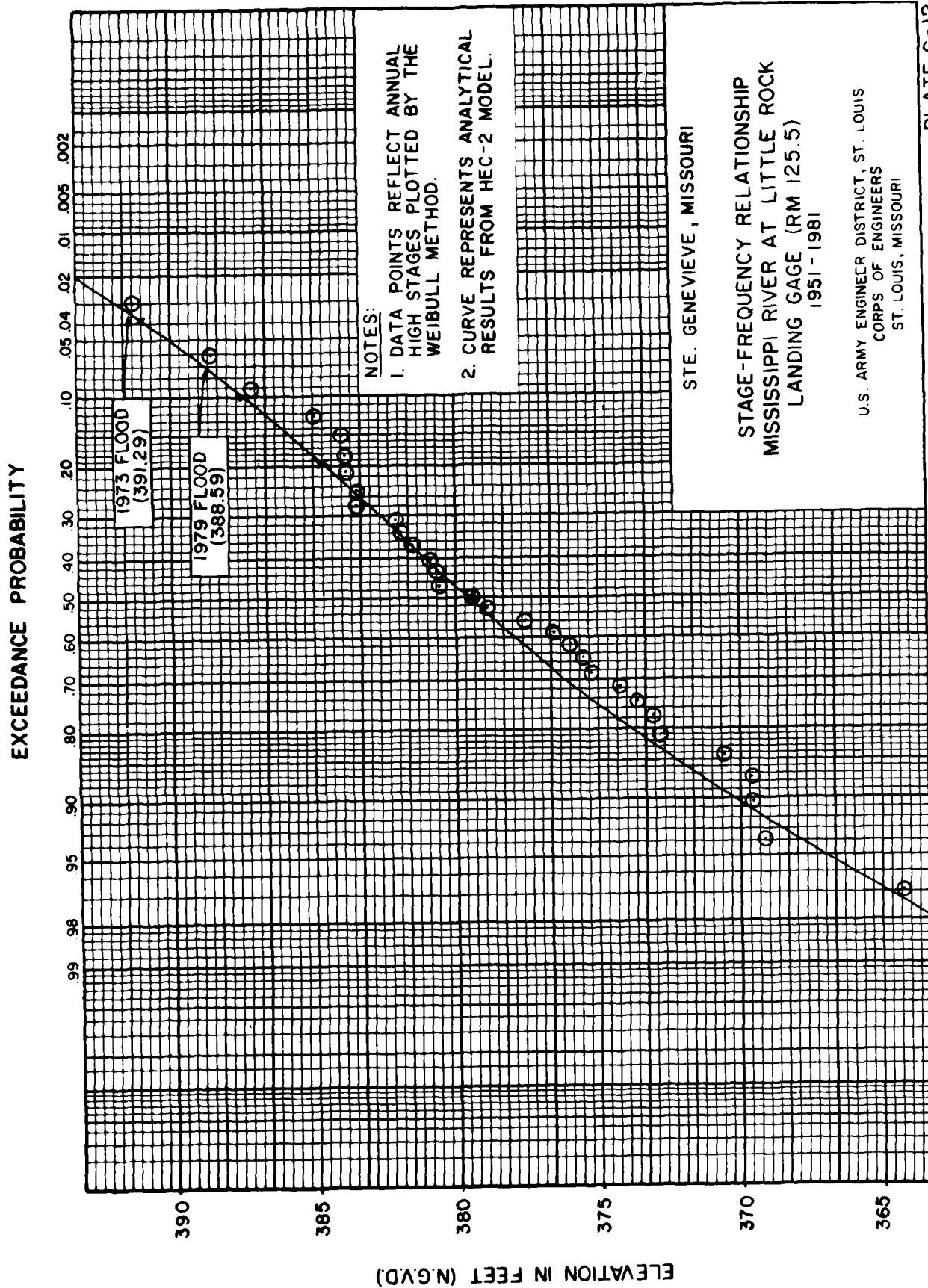


PLATE C-II

PLATE C-II



STAGE-FREQUENCY RELATIONSHIP  
MISSISSIPPI RIVER AT LITTLE ROCK  
LANDING GAGE (RM 125.5)  
1951 - 1981

U.S. ARMY ENGINEER DISTRICT, ST. LOUIS  
CORPS OF ENGINEERS  
ST. LOUIS, MISSOURI

PLATE C-12

PLATE C-12

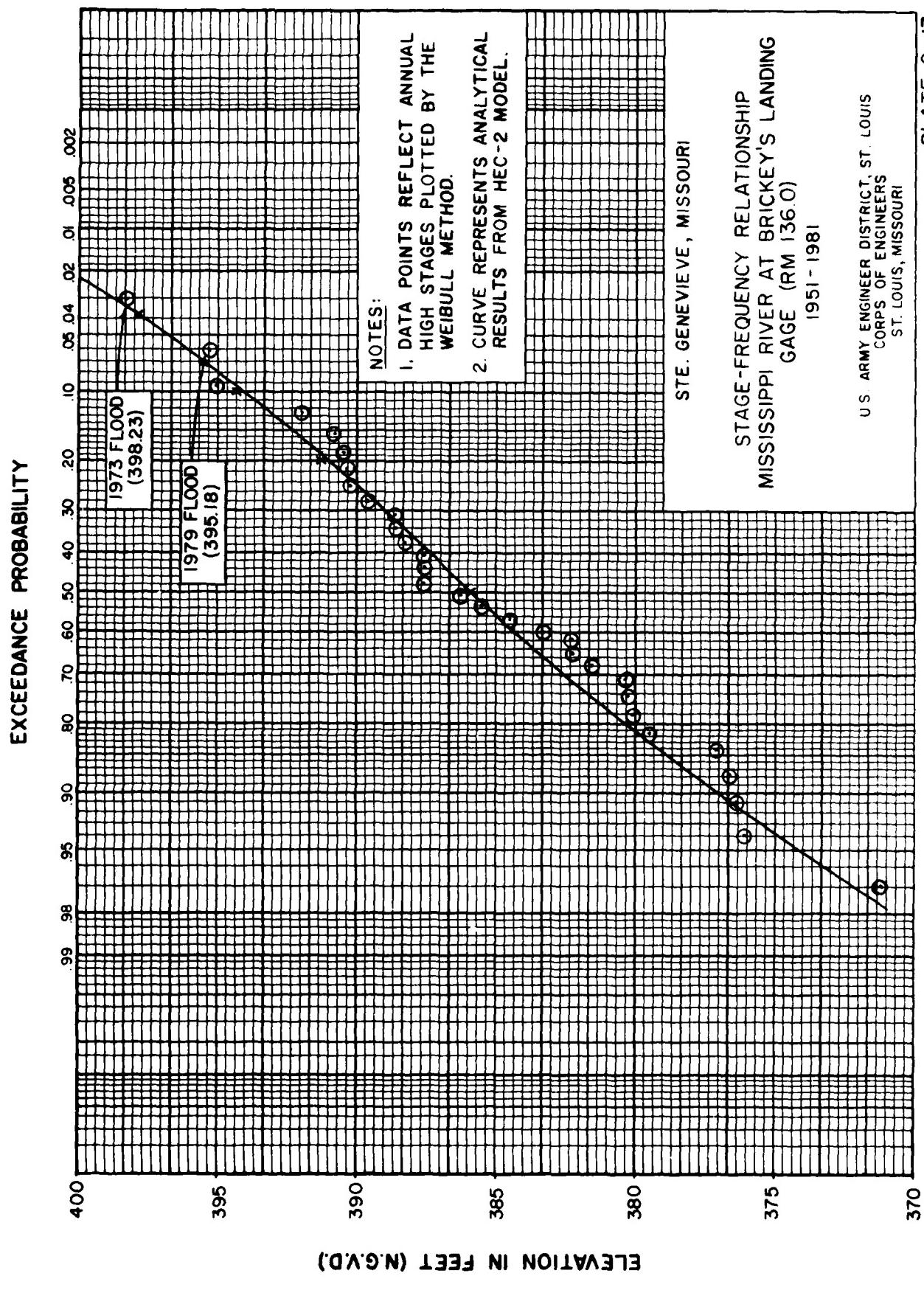
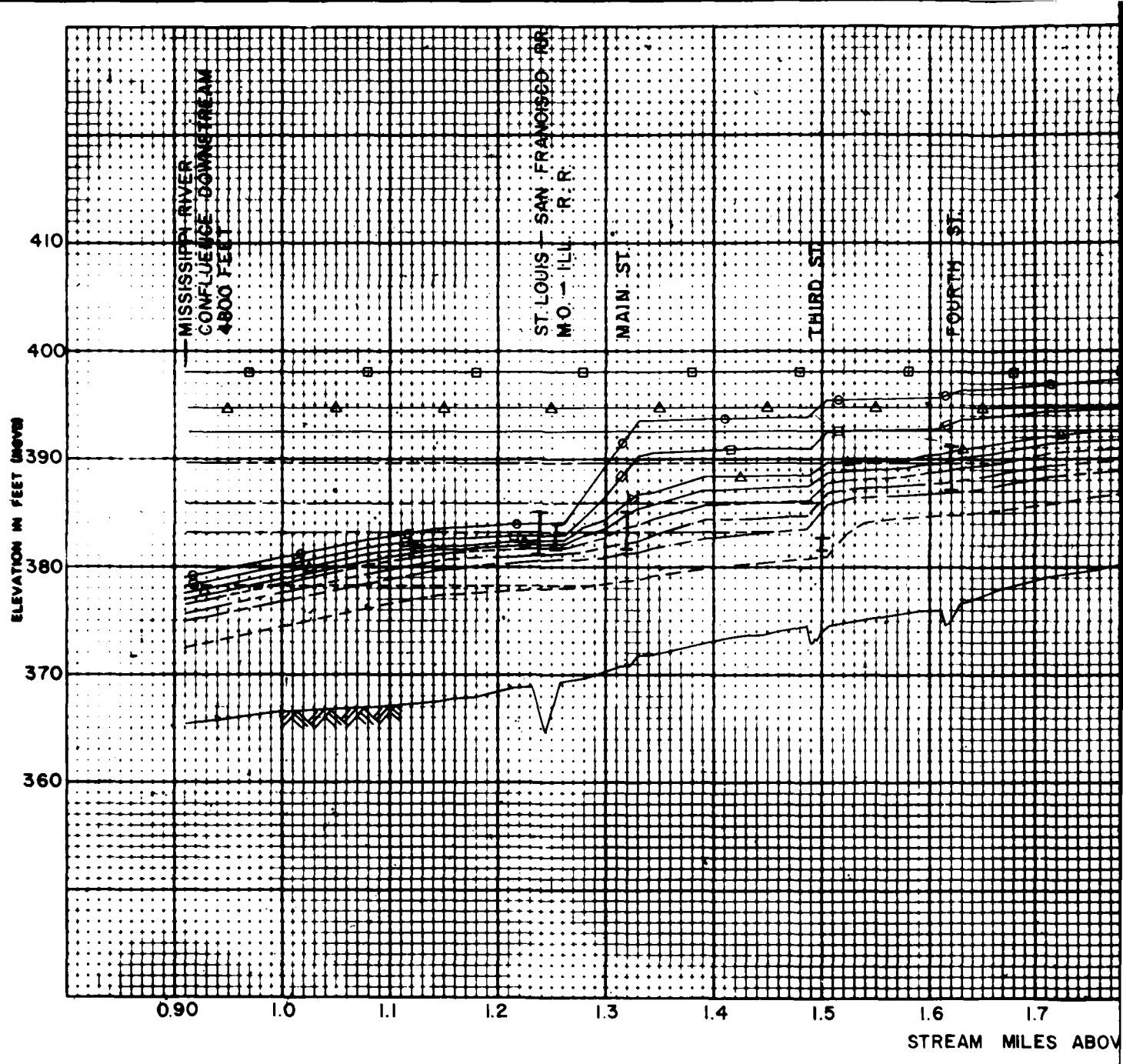
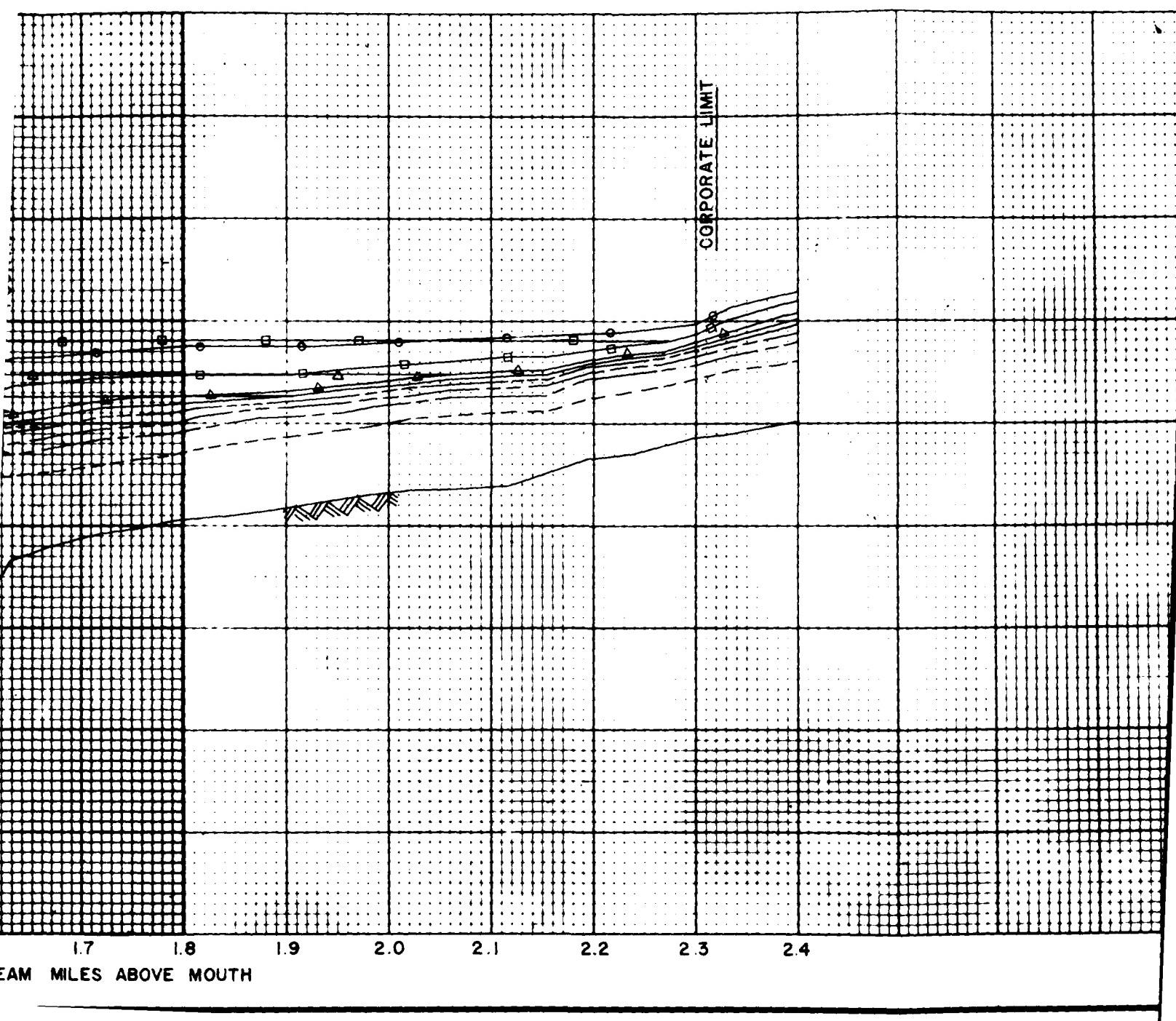
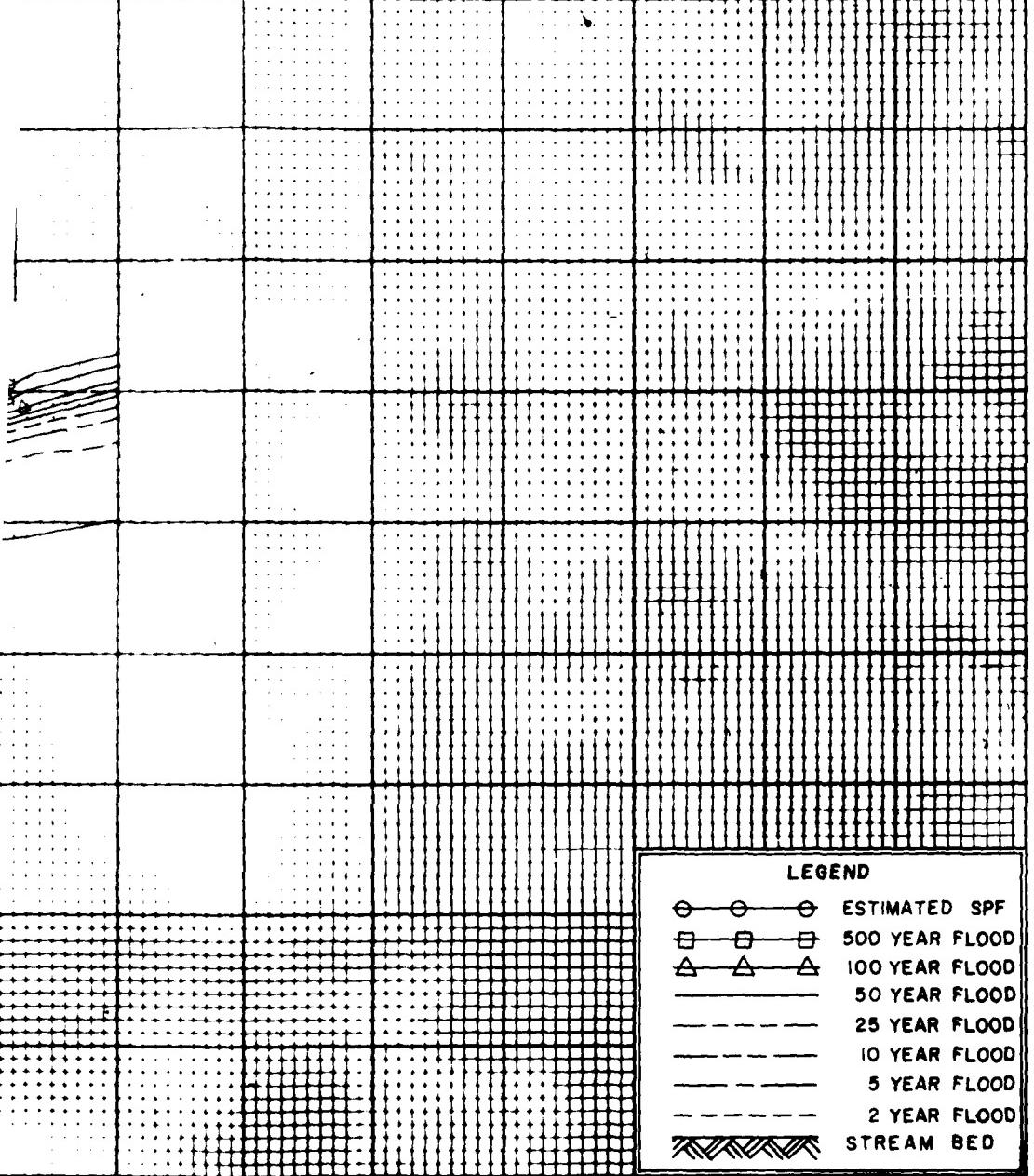


PLATE C-13







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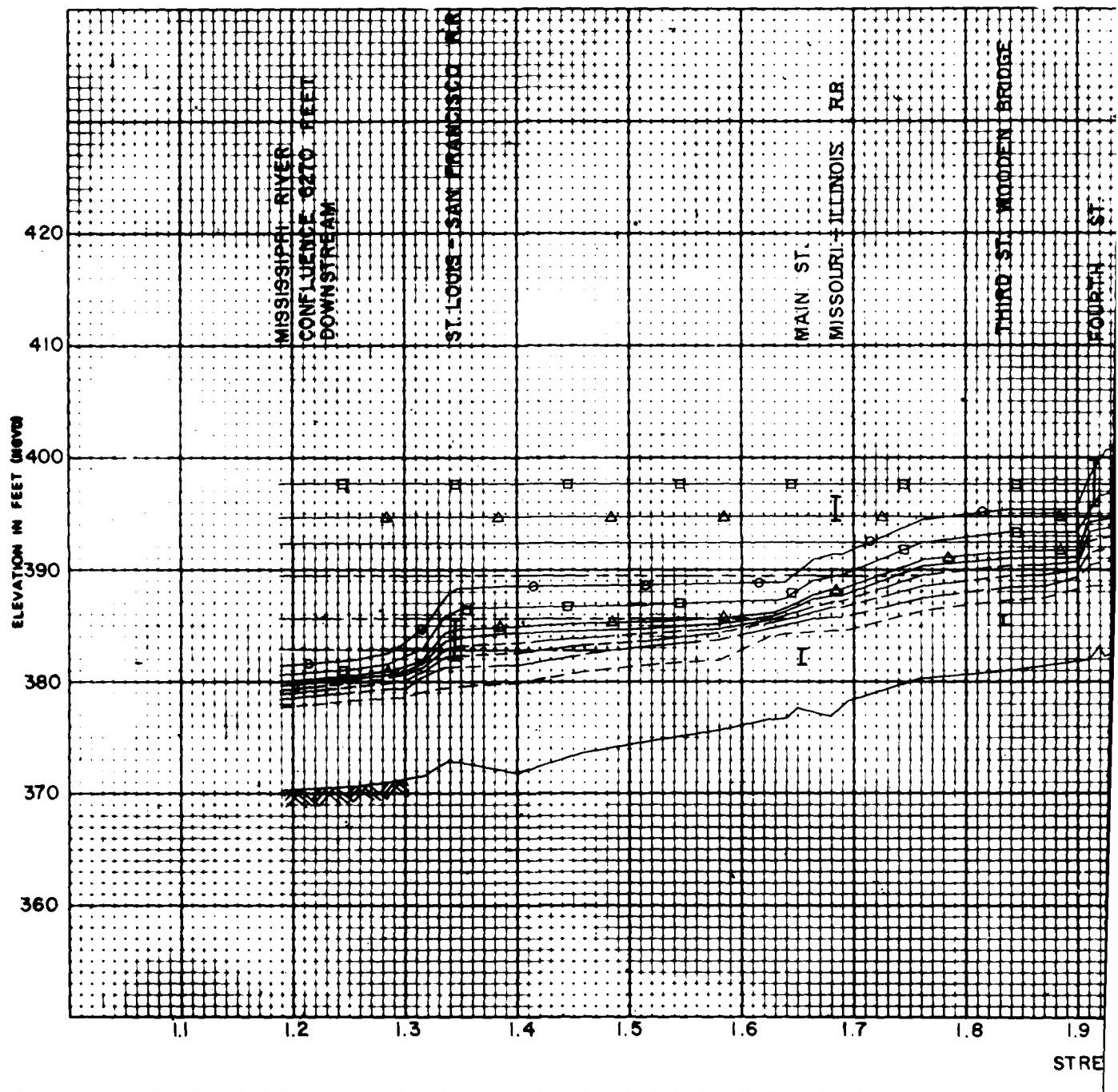
PLATE C-14

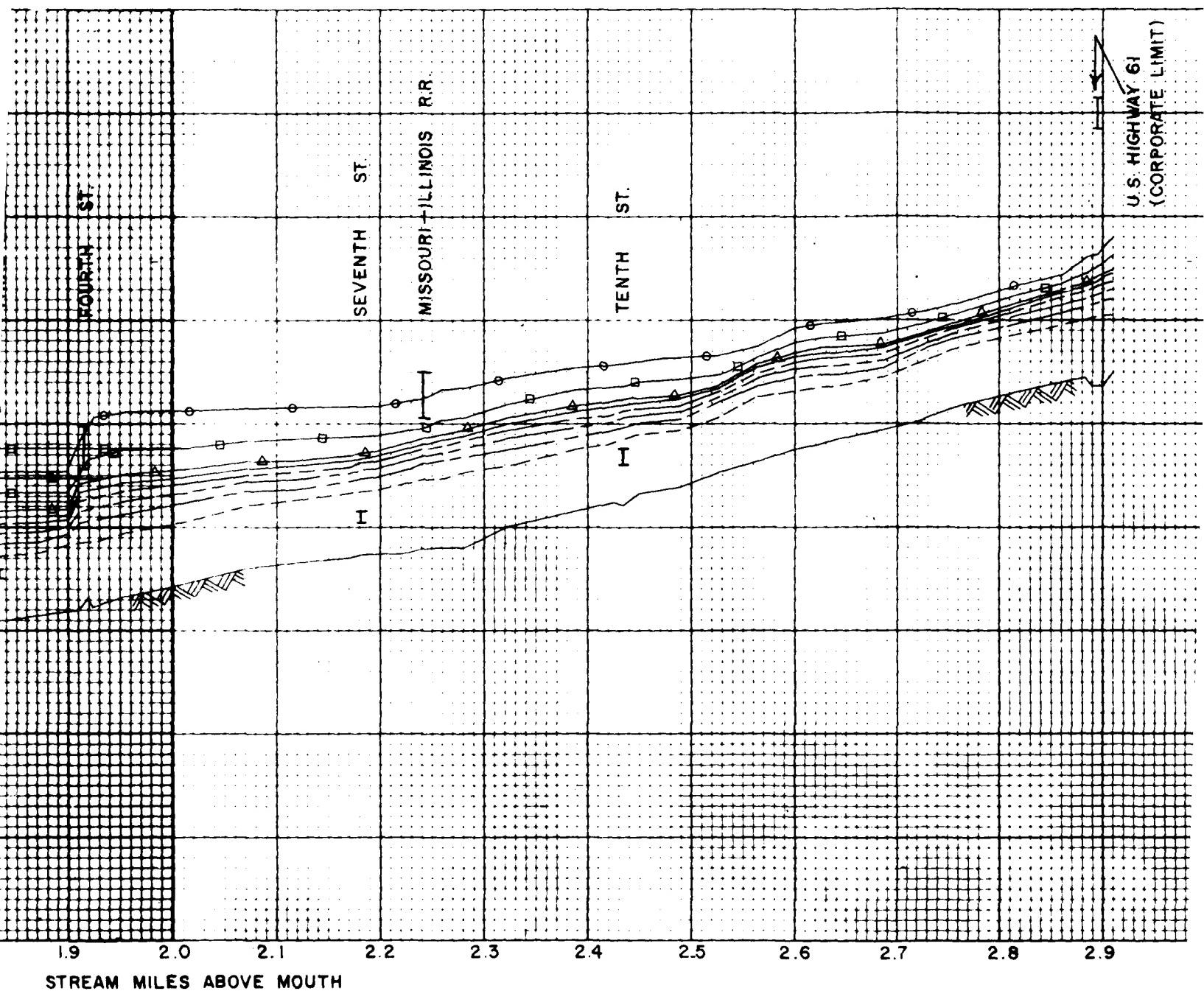
FREQUENCY PROFILES - FUTURE 'WITHOUT PROJECT'

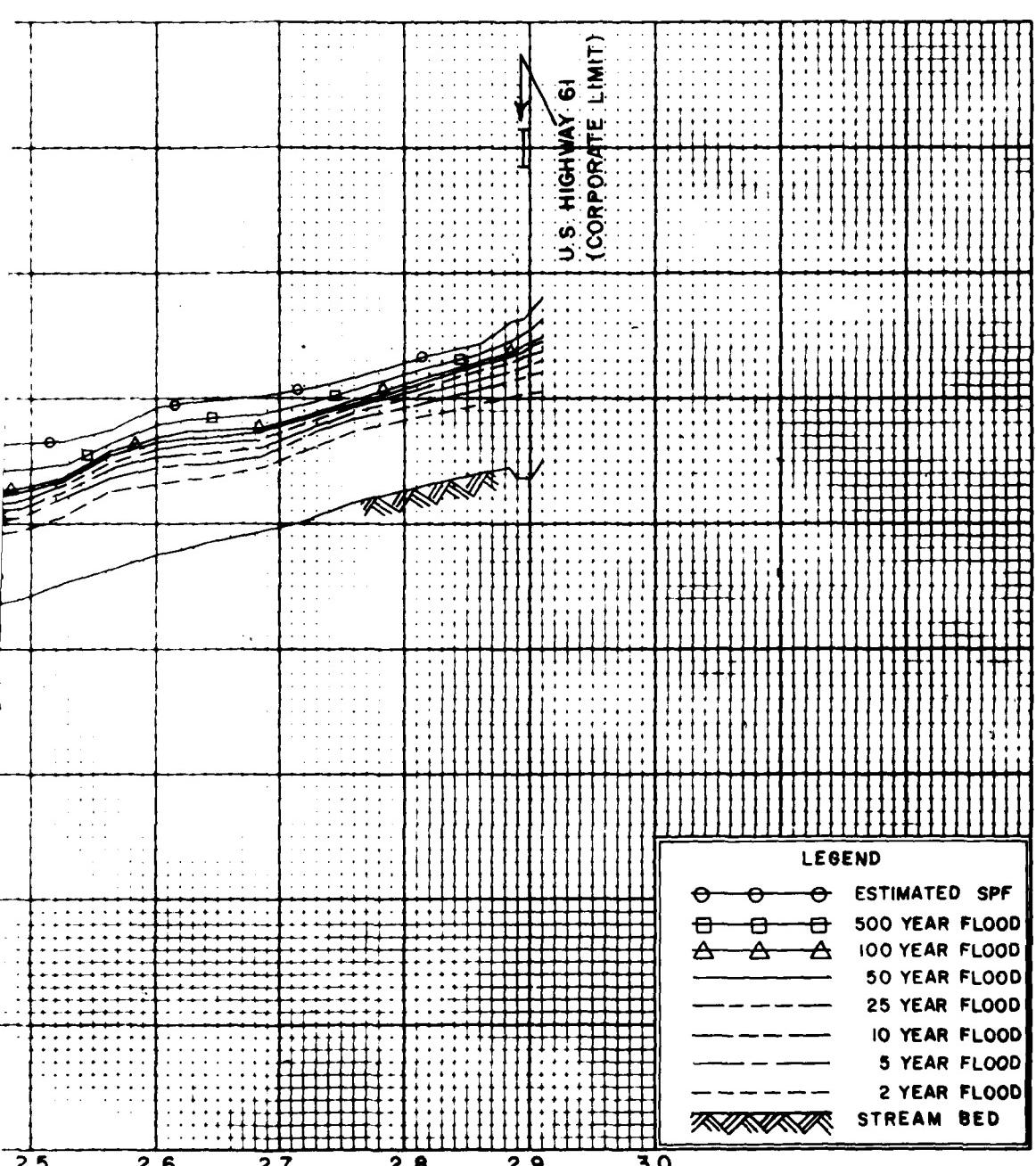
NORTH GABORI CREEK

STE. GENEVIEVE, MO.  
(STE. GENEVIEVE CO.)

PLATE C-14







FREQUENCY PROFILES - FUTURE 'WITHOUT PROJECT'

**SOUTH GABOURI CREEK**

STE. GENEVIEVE, MO.  
(STE. GENEVIEVE CO.)

PLATE C-15

PLATE C-16



1







## TRIBUTARY FLOODING

STANDARD PROJECT FLOOD  
LIMITS  
100 YEAR FLOOD LIMITS  
50 YEAR FLOOD LIMITS

Ergonomics

121

2

400-400

**STE. GENEVIEVE, MO & VICINITY**

TOPOGRAPHIC MAPPING  
SARRY ENGINEER DISTRICT ST LOUIS  
CORPS OF ENGINEERS  
ST LOUIS, MISSOURI  
16 2 SHEETS PLATE C 17 SHEET NO 18

STE. GENEVIEVE, MISSOURI  
MEASURE 2  
PUMPING STATION NO. 2  
ELEVATION vs.  
PUMPING CAPACITY  
U.S. ARMY ENGINEER DISTRICT,  
ST. LOUIS  
CORPS OF ENGINEERS  
ST. LOUIS, MO.

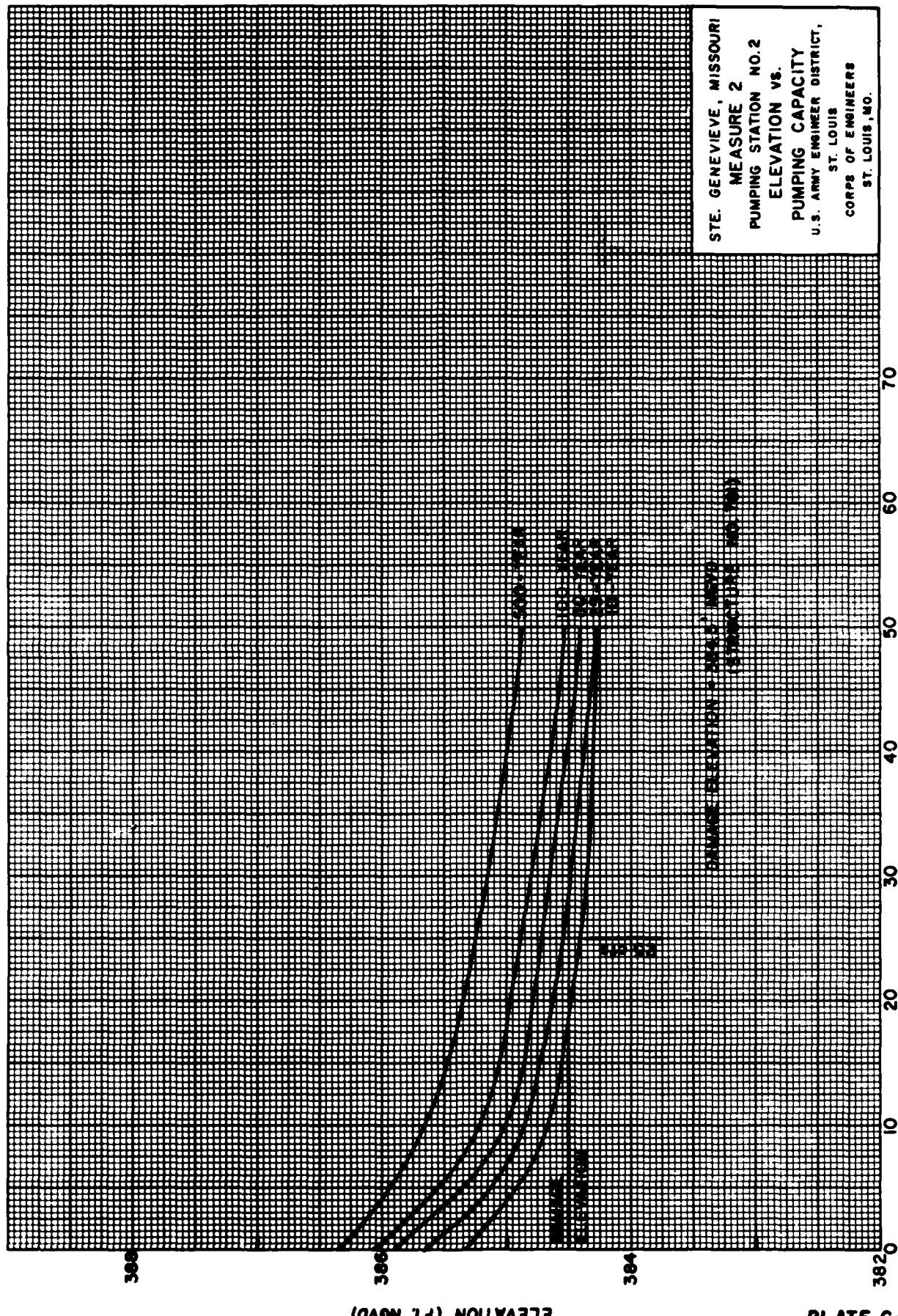
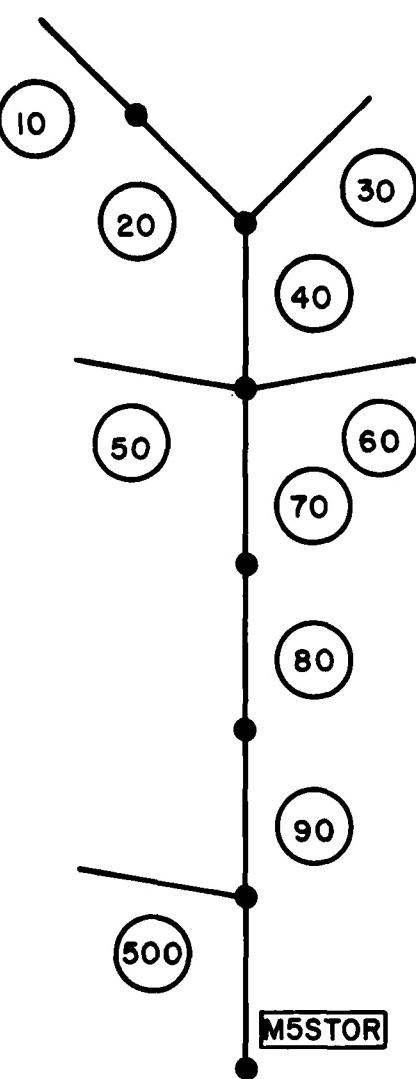
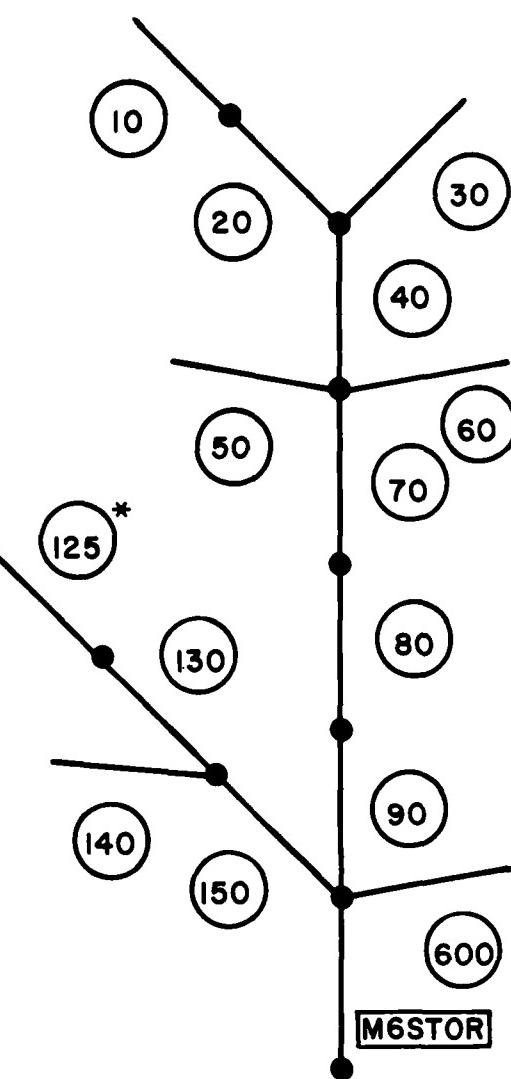


PLATE C-17A

PLATE C-17A



MEASURE 5



MEASURE 6

\* UNIT HYDROGRAPH (125) REPRESENTS COMBINED HYDROGRAPH OF (100), (110), AND (120).

LEGEND



SUBAREA NO.



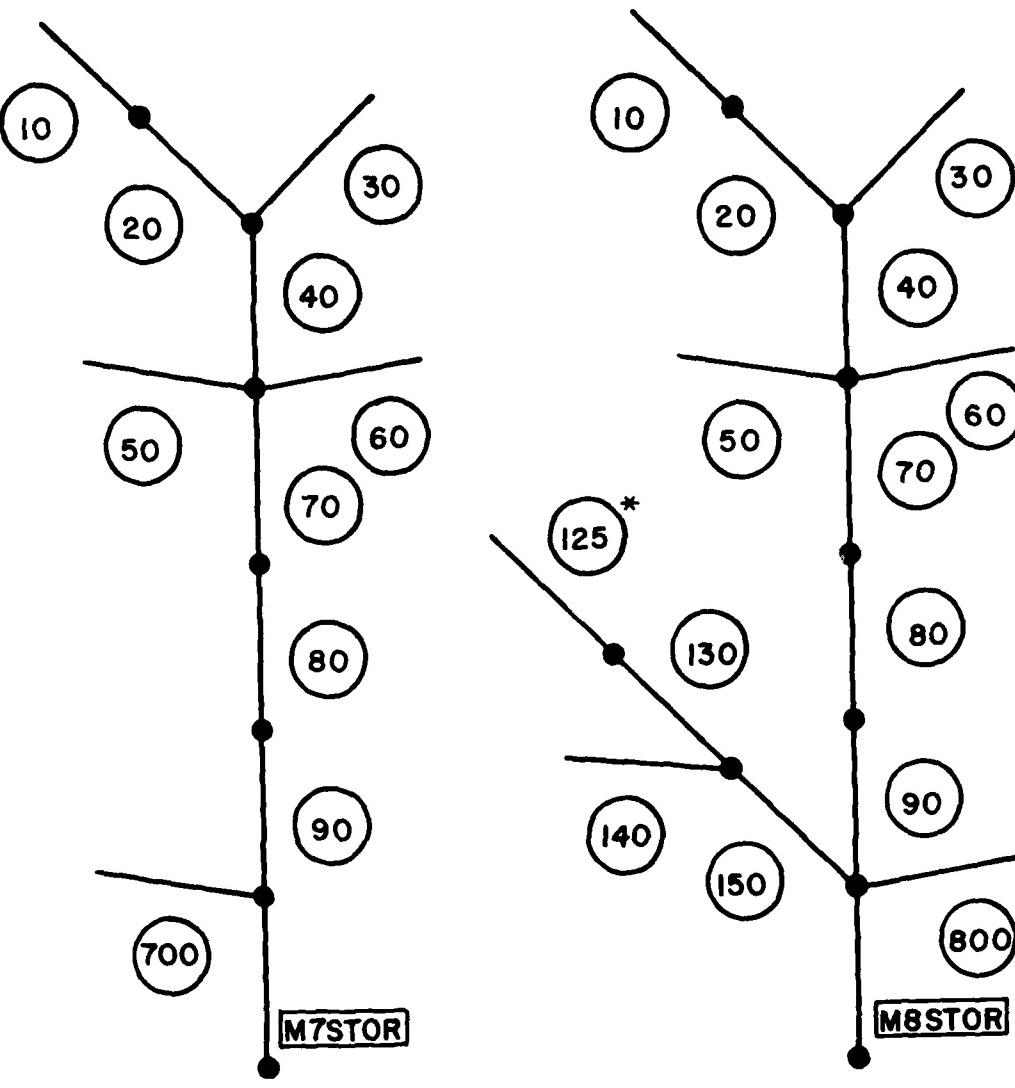
ROUTING REACH



AVAILABLE INTERIOR  
STORAGE

STE. GENEVIEVE, MISSOURI  
HEC-I SCHEMATIC  
FOR MEASURES 5 AND 6  
U. S. ARMY ENGINEER DISTRICT, ST. LOUIS  
CORPS OF ENGINEERS  
ST. LOUIS, MO.

PLATE C-18



### MEASURE 7

### MEASURE 8

\* UNIT HYDROGRAPH 125 REPRESENTS COMBINED HYDROGRAPH OF 100, 110, AND 120.

#### LEGEND



SUBAREA NO.



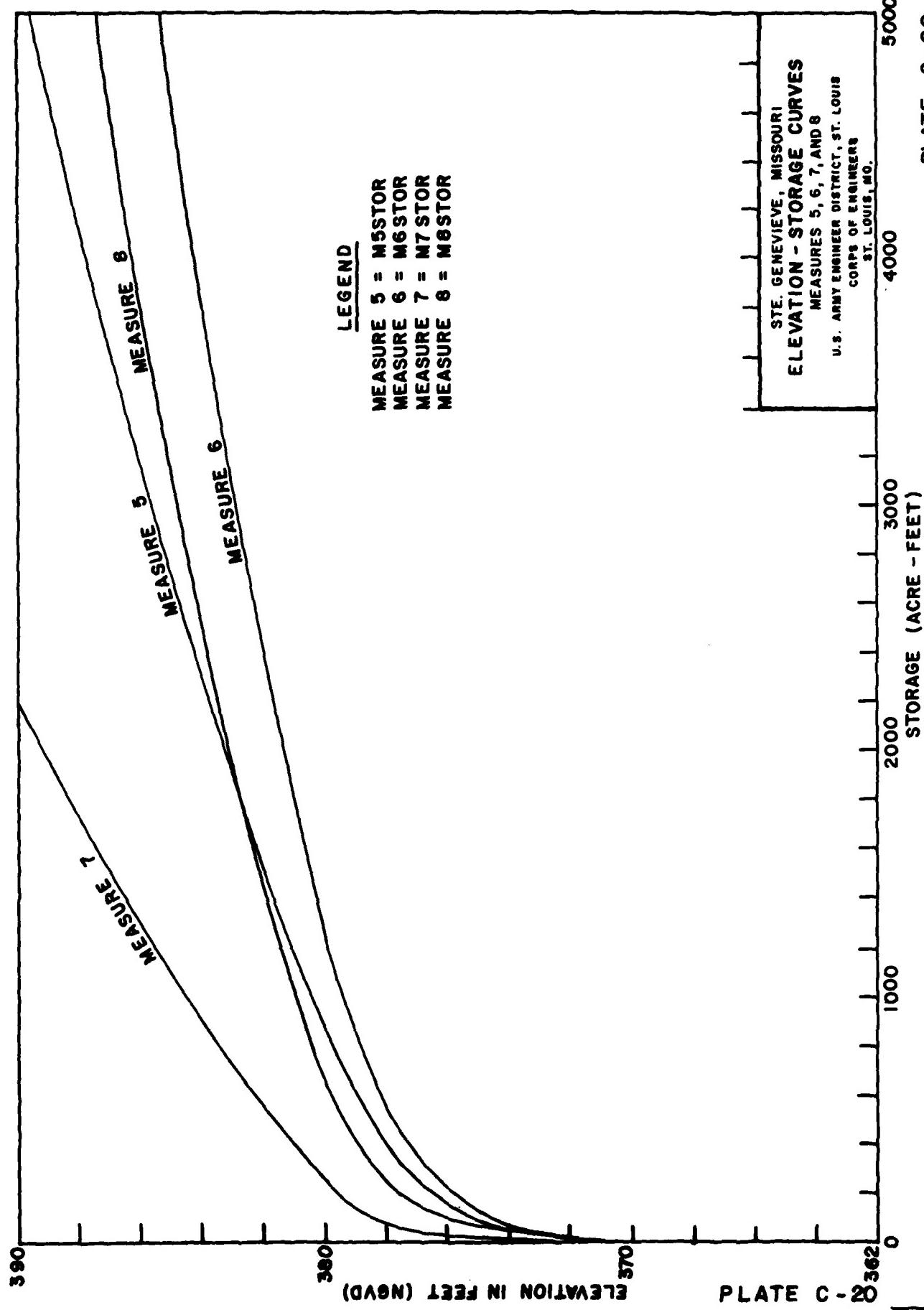
ROUTING REACH

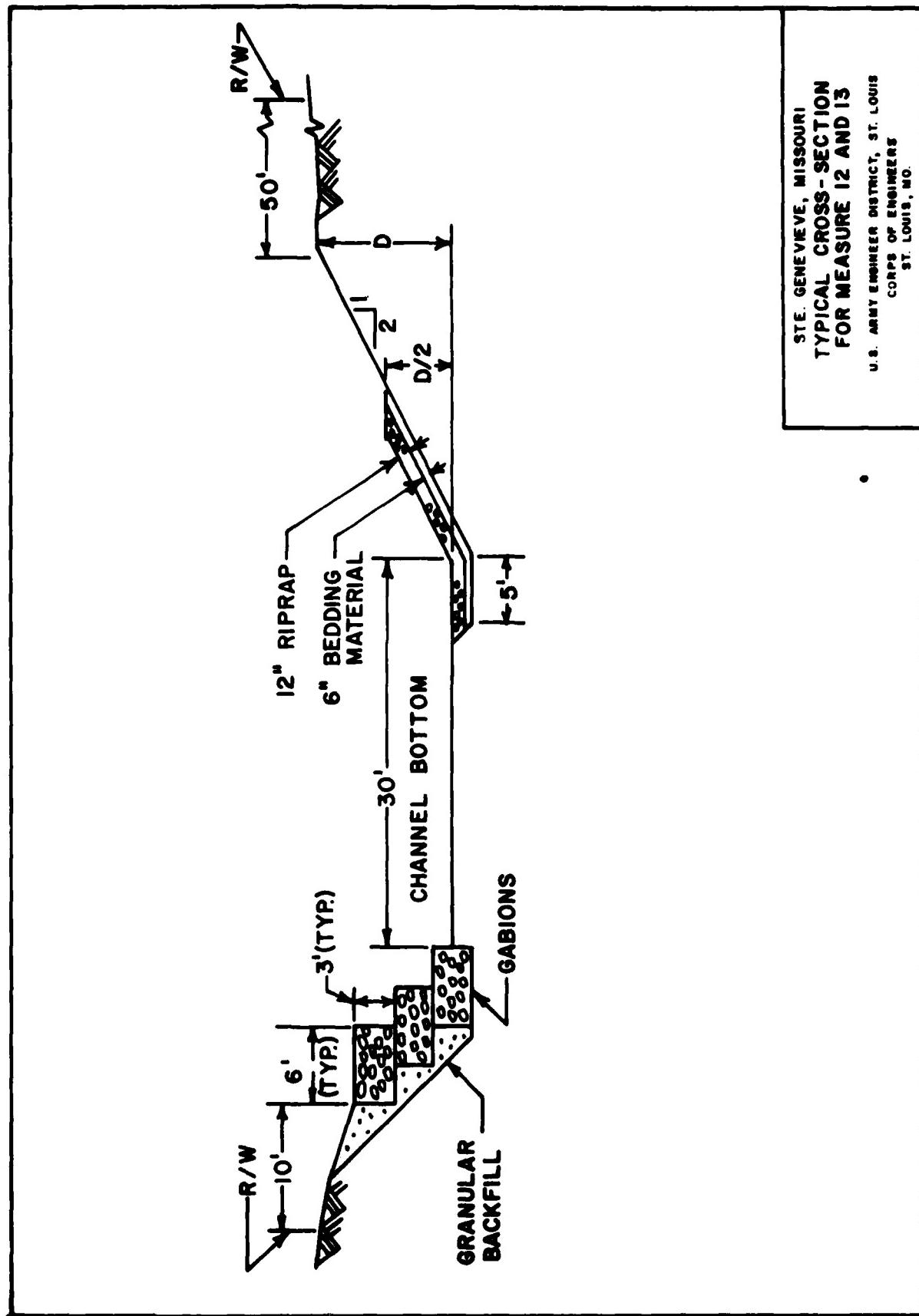


AVAILABLE INTERIOR  
STORAGE

STE. GENEVIEVE, MISSOURI  
HEC-1 SCHEMATIC  
FOR MEASURES 7 AND 8  
U.S. ARMY ENGINEER DISTRICT, ST. LOUIS  
CORPS OF ENGINEERS  
ST. LOUIS, MO.

PLATE C-19

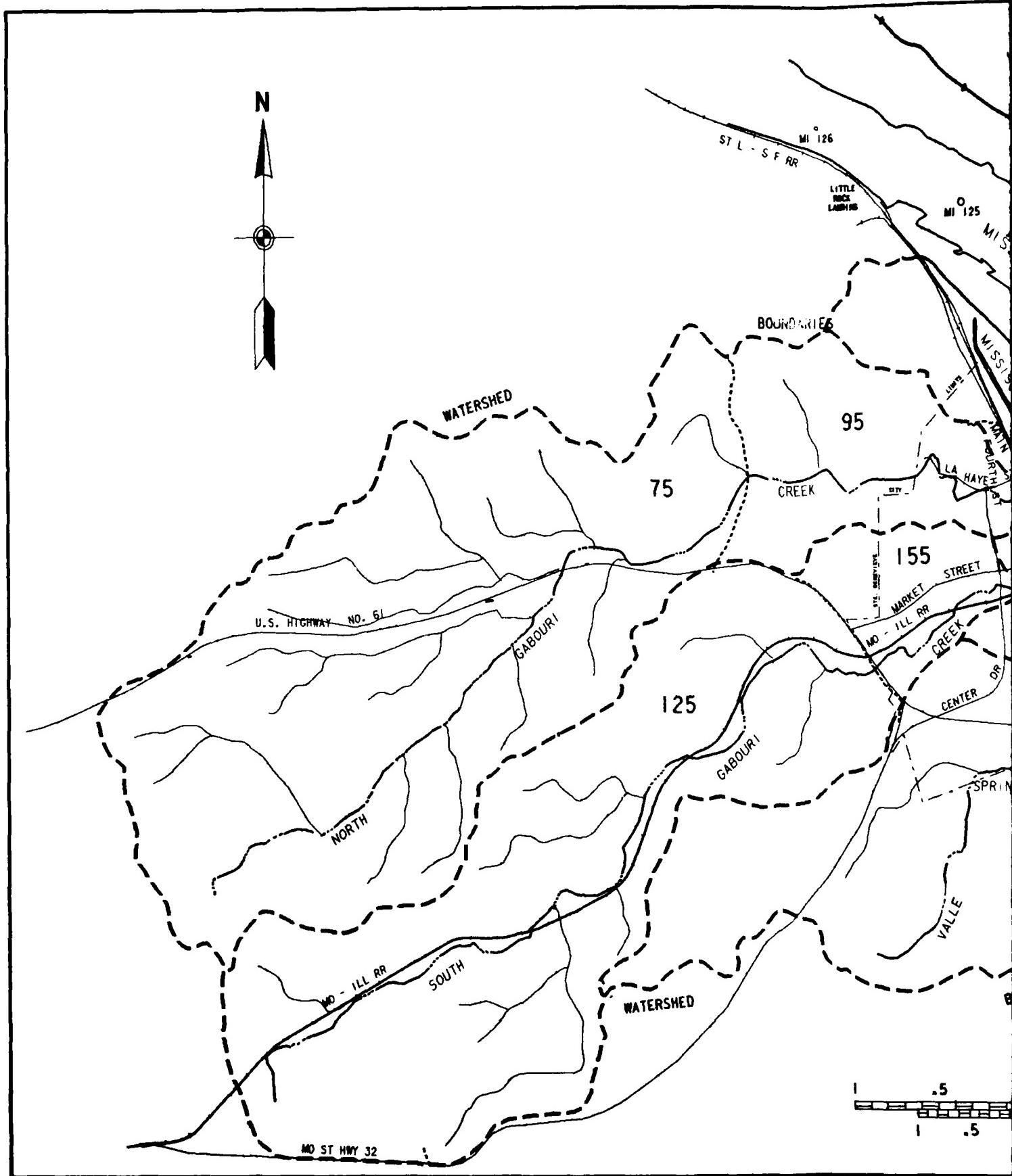




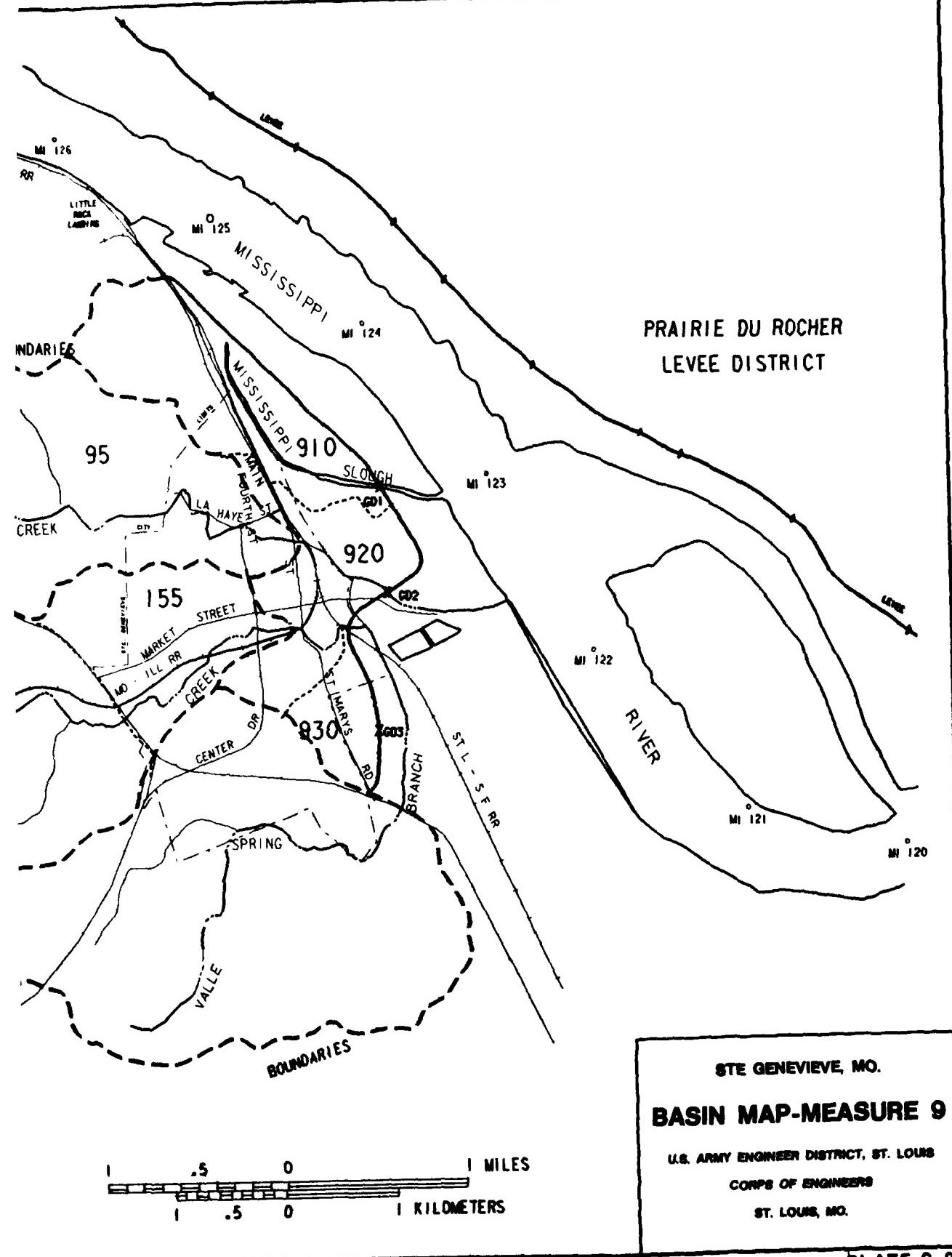
STE. GENEVIEVE, MISSOURI  
TYPICAL CROSS-SECTION  
FOR MEASURE 12 AND 13  
U.S. ARMY ENGINEER DISTRICT, ST. LOUIS  
CORPS OF ENGINEERS  
ST. LOUIS, MO.

PLATE C-21

PLATE C-21



PRAIRIE DU ROCHER  
LEVEE DISTRICT



STE GENEVIEVE, MO.

**BASIN MAP-MEASURE 9**

U.S. ARMY ENGINEER DISTRICT, ST. LOUIS

CORPS OF ENGINEERS

ST. LOUIS, MO.

PLATE C-22

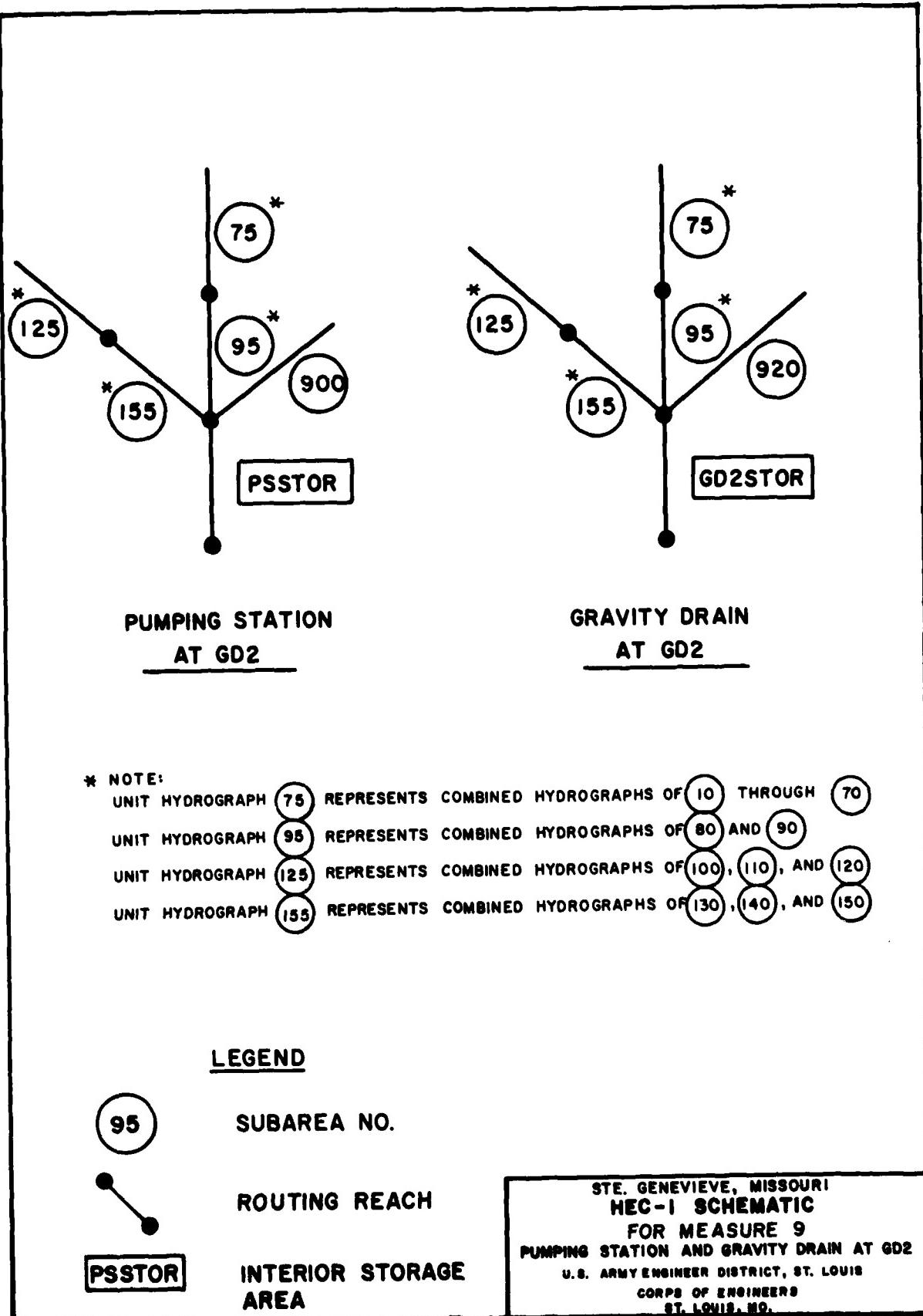
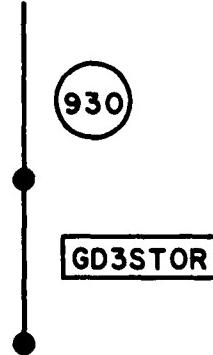


PLATE C-23



**GRAVITY DRAIN  
AT GDI**



**GRAVITY DRAIN  
AT GD3**

**LEGEND**



**SUBAREA NO**



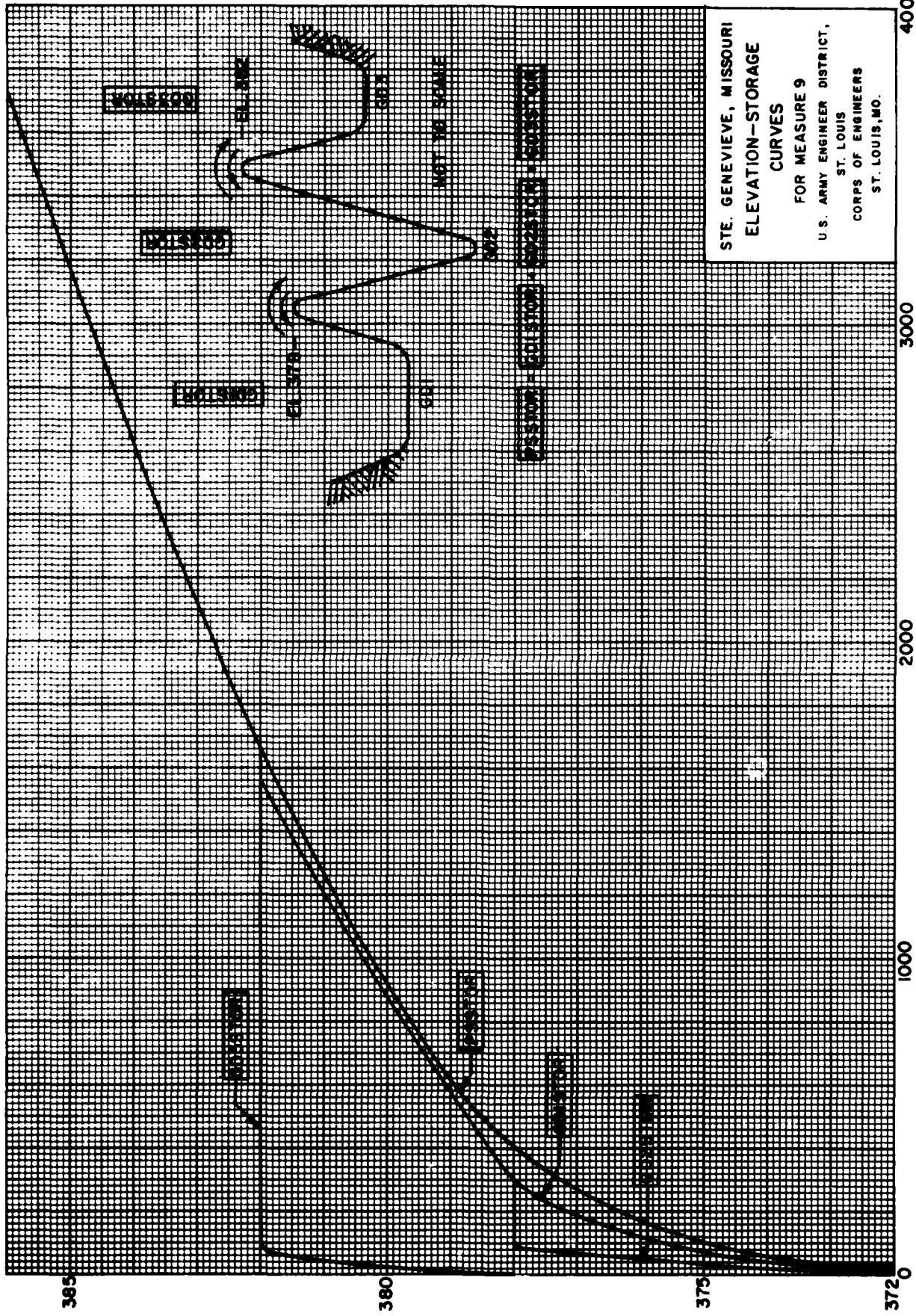
**ROUTING REACH**



**INTERIOR STORAGE  
AR'A**

STE. GENEVIEVE, MISSOURI  
HEC-I SCHEMATIC  
FOR MEASURE 9  
GRAVITY DRAINS AT GDI AND GD3  
U.S. ARMY ENGINEER DISTRICT, ST. LOUIS  
CORPS OF ENGINEERS  
ST. LOUIS, MO.

**PLATE C-24**



ELEVATION (FT. MSL)

PLATE C-25

385

380

375

372

PLATE C-25

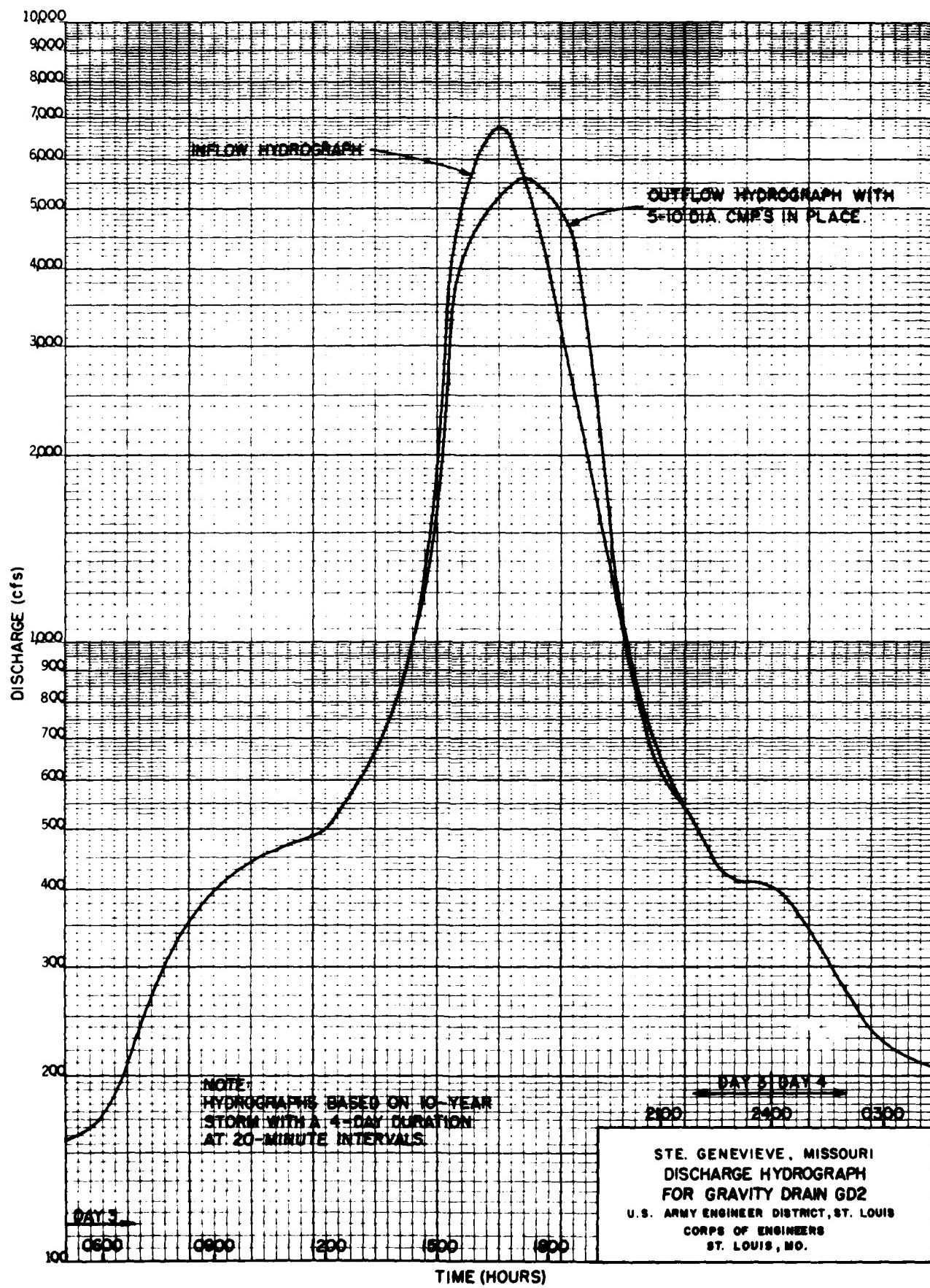


PLATE C-25 A

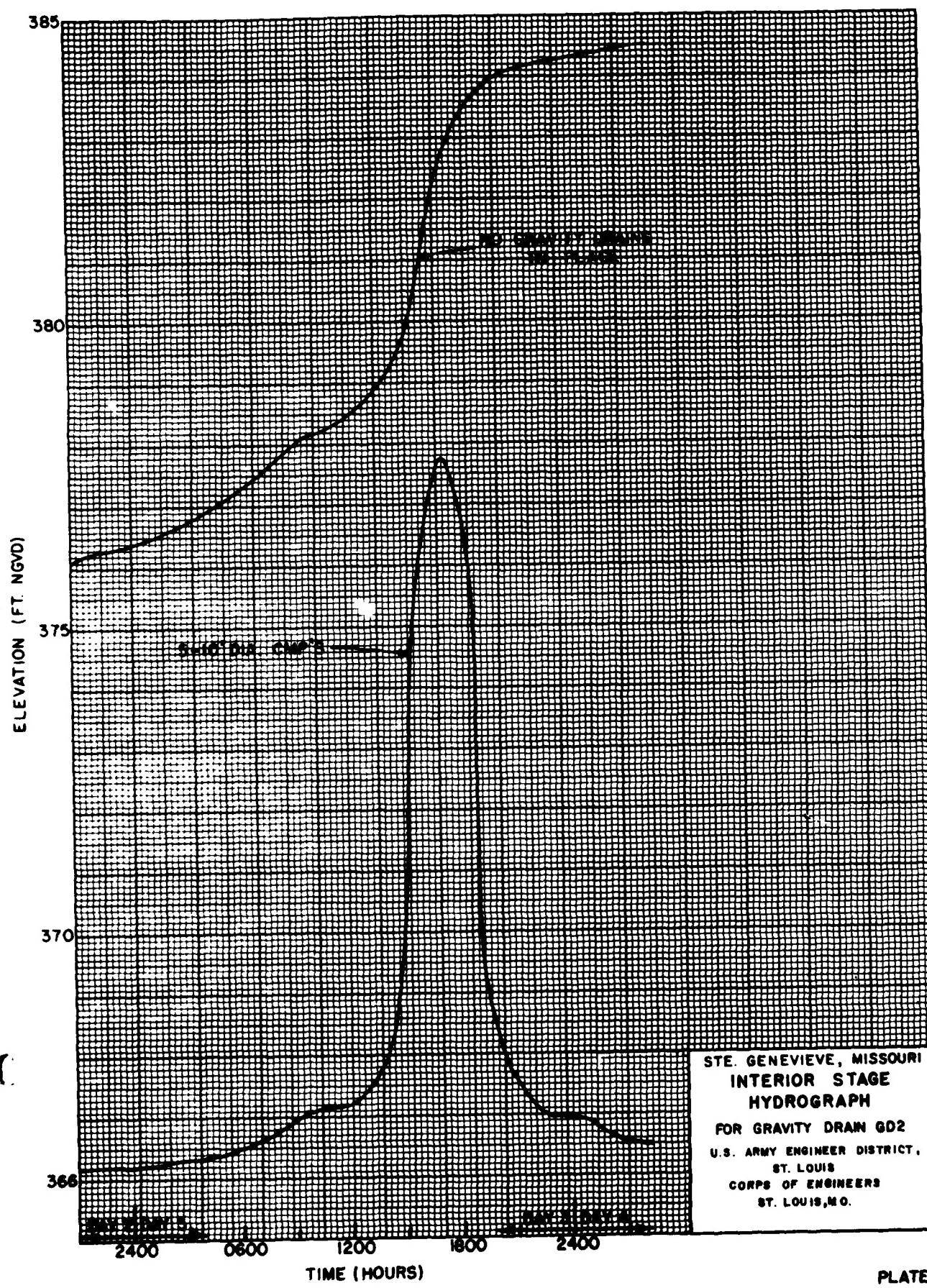
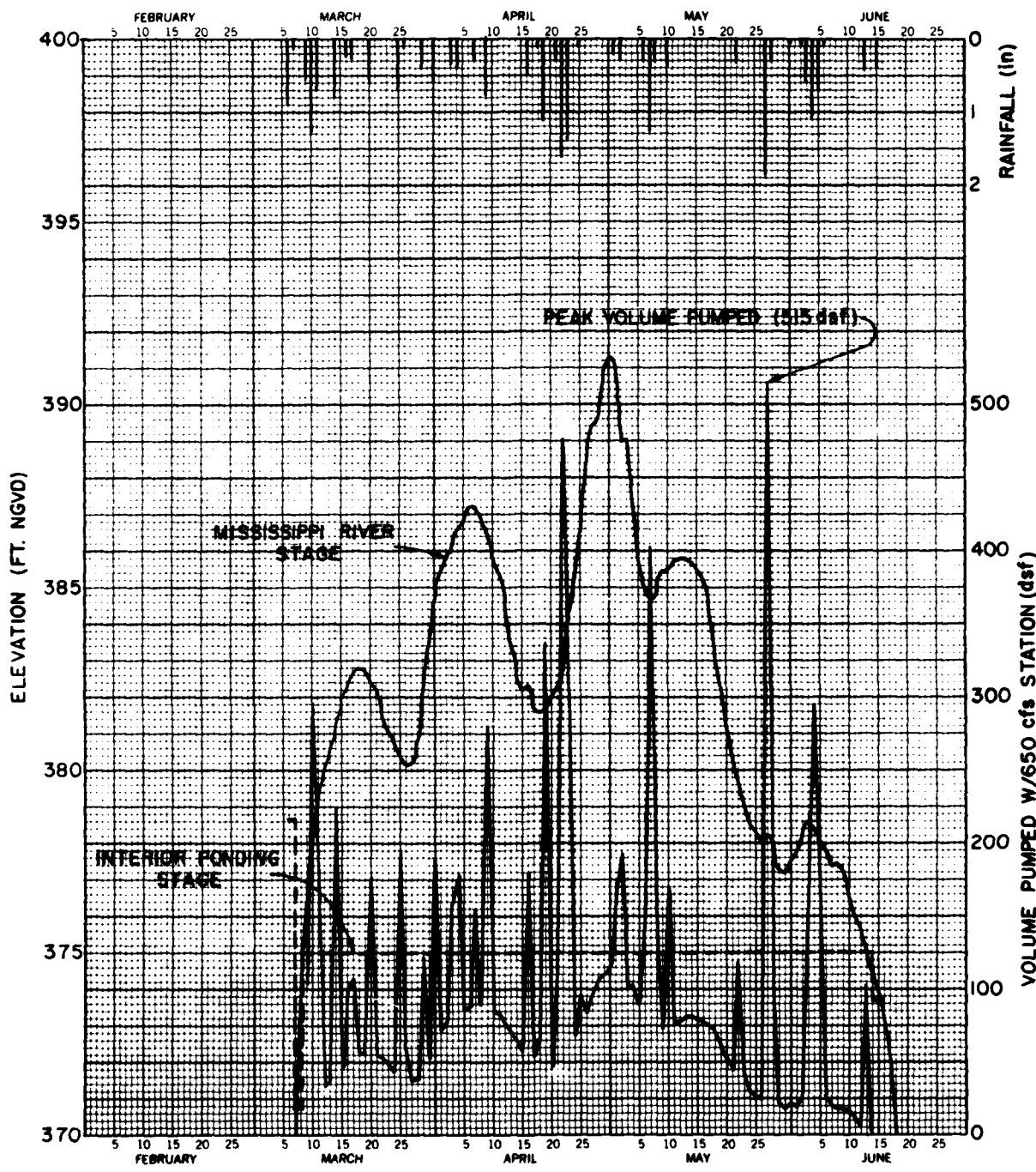


PLATE C-258



STE. GENEVIEVE, MISSOURI  
STAGE-HYDROGRAPH AT GD2  
1973 FLOOD  
U.S. ARMY ENGINEER DISTRICT, SAINT LOUIS  
CORPS OF ENGINEERS  
ST. LOUIS, MO.

PLATE C-25C

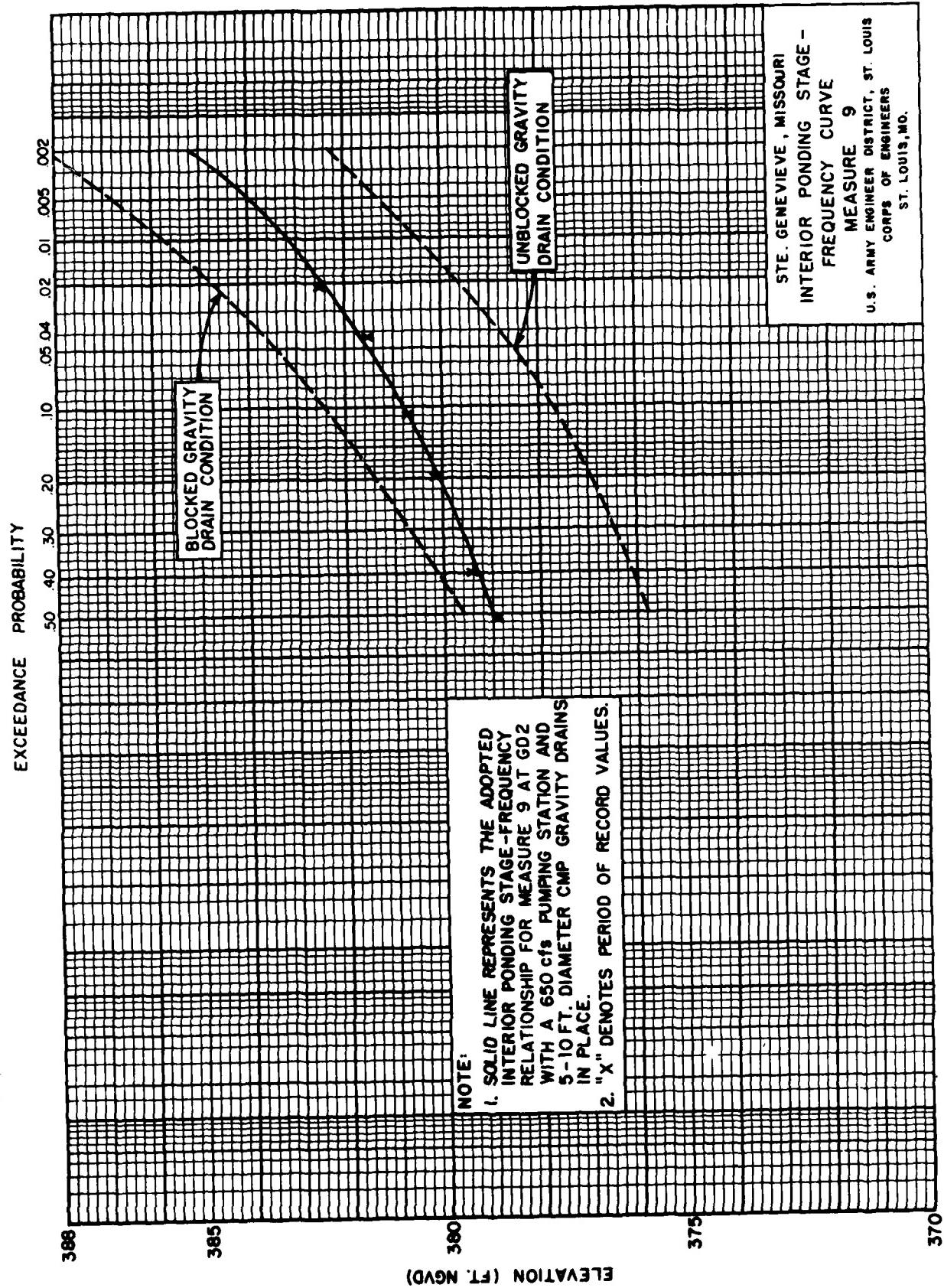


PLATE C-26

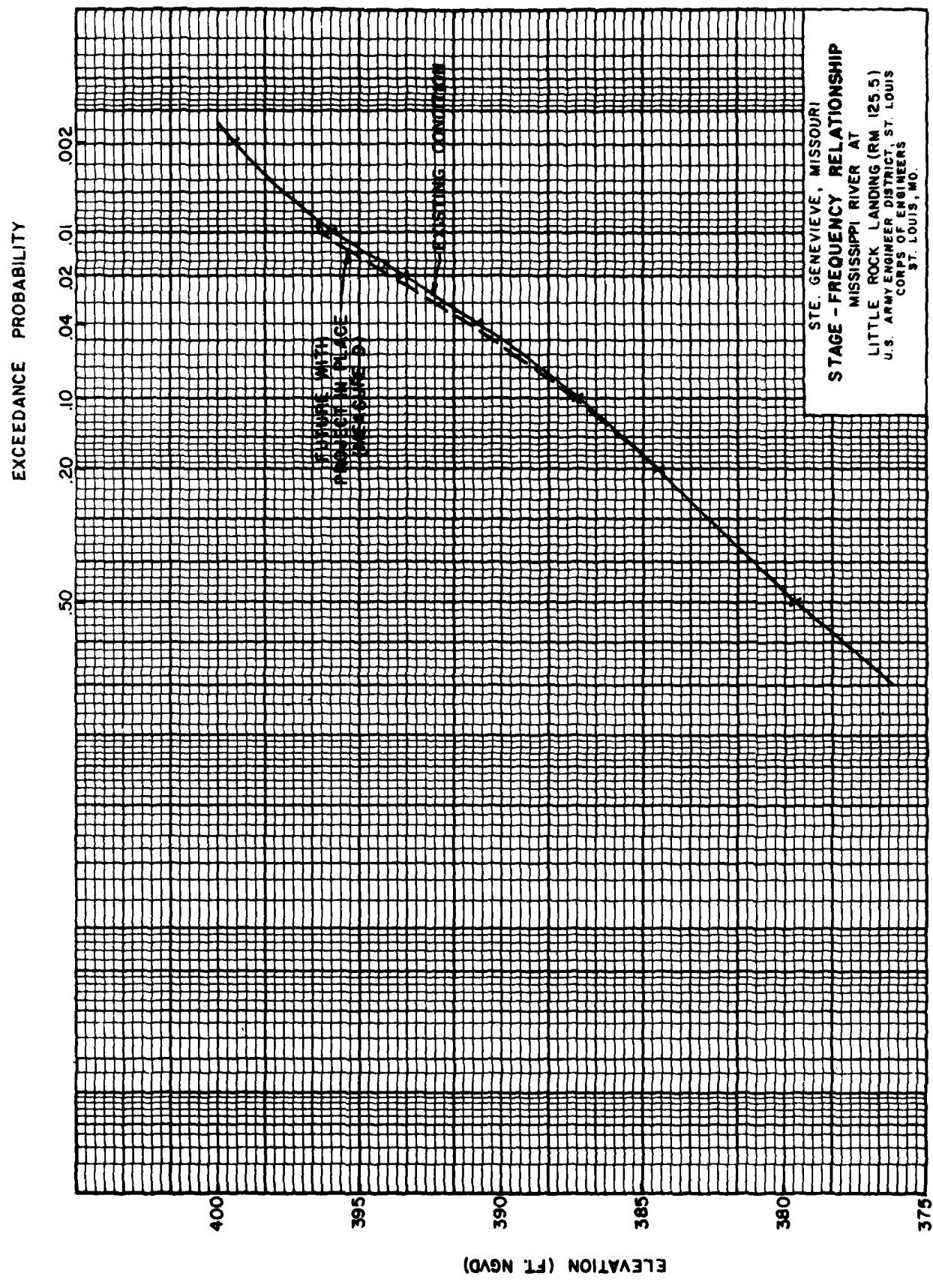
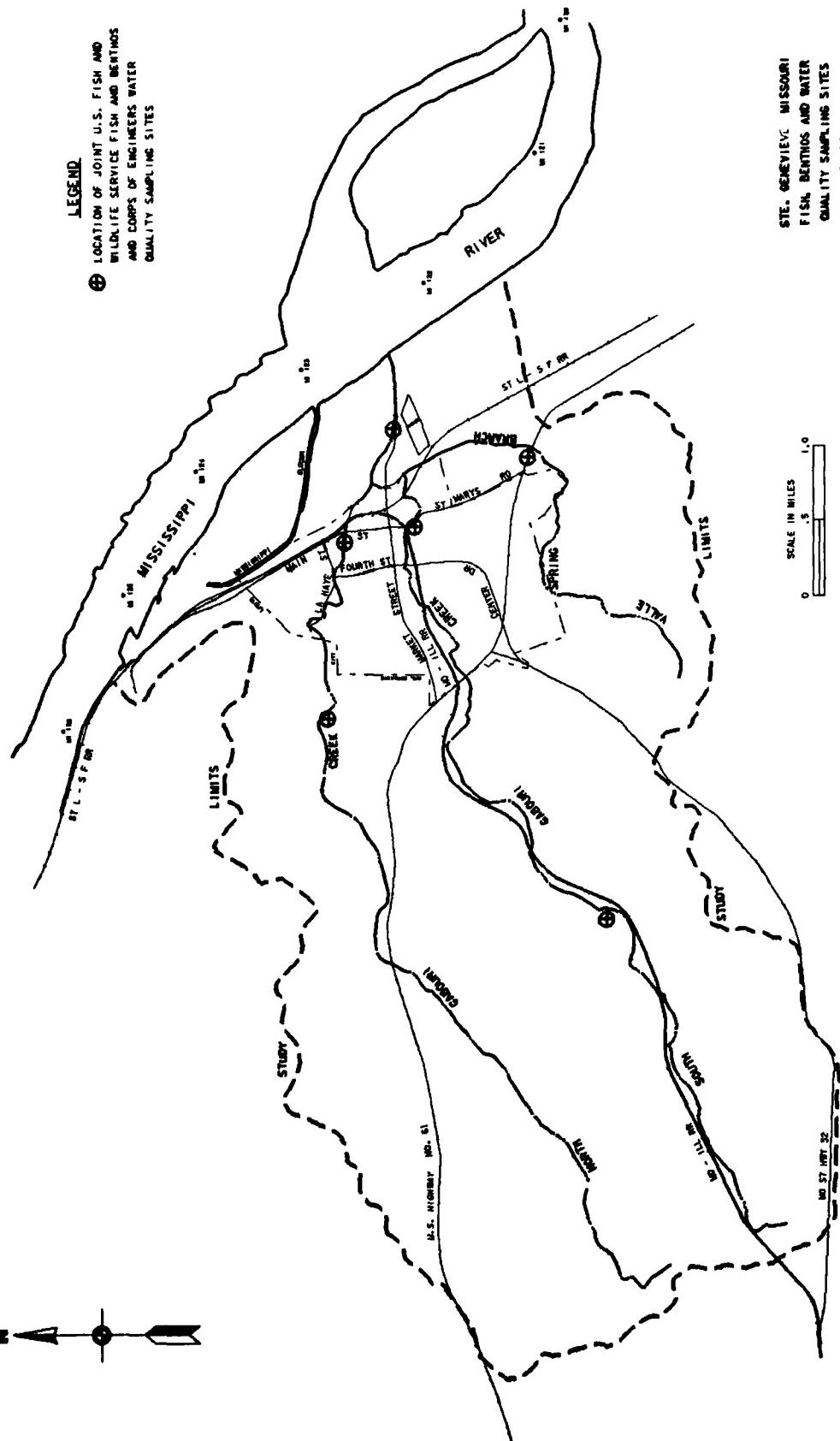


PLATE C-26A

LEGEND  
④ LOCATION OF JOINT U.S. FISH AND  
WILDLIFE SERVICE FISH AND WATER  
AND CORPS OF ENGINEERS WATER  
QUALITY SAMPLING SITES

SITE: GENEVIEVE MISSOURI  
FISH, BENTHOS AND WATER  
QUALITY SAMPLING SITES  
PLATE F-1



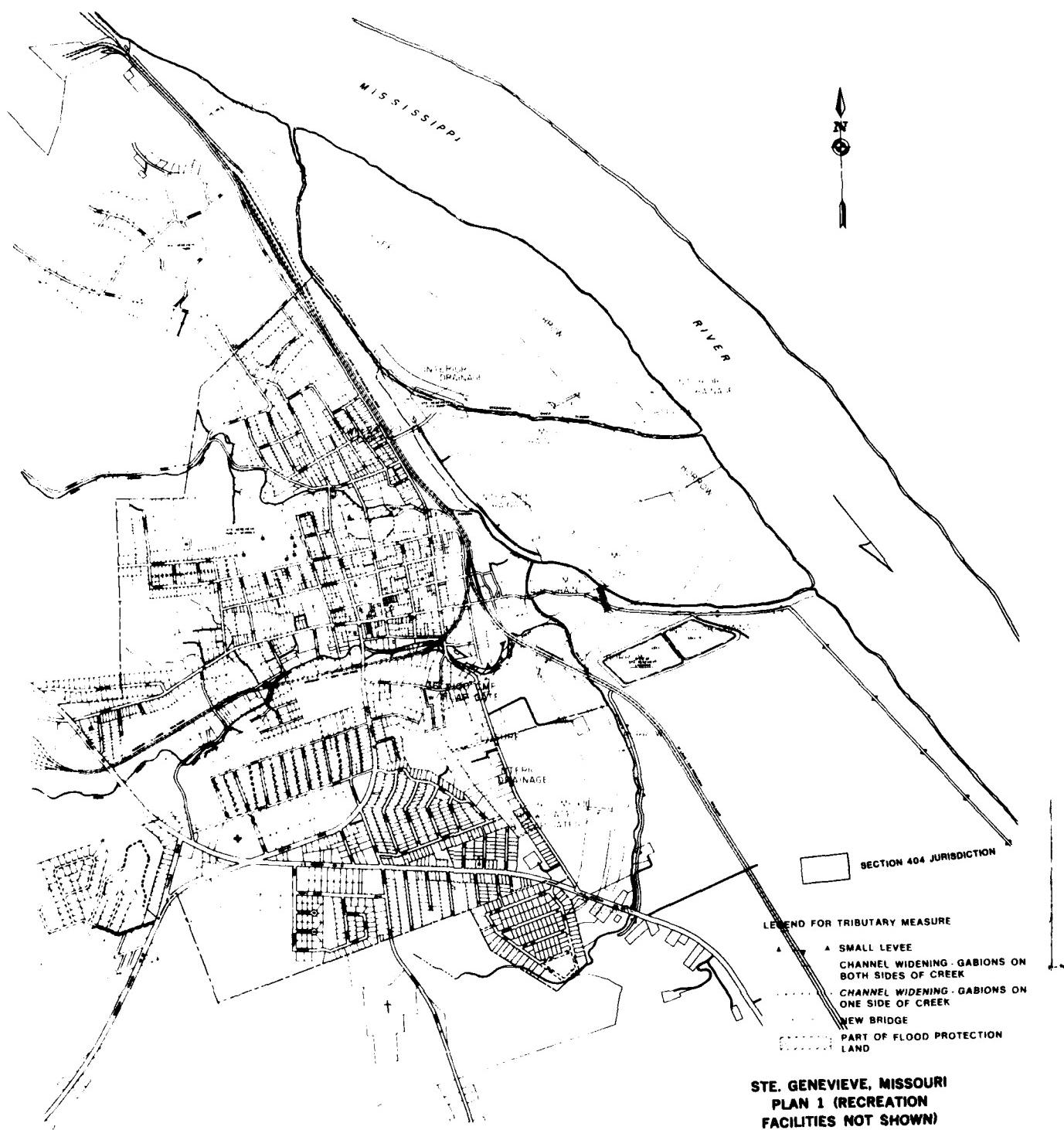


PLATE K-1

